

QtPass

1.4.0

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Chapter 1

QtPass

1.1 Introduction

QtPass is a multi-platform GUI for pass, the standard unix password manager.

<https://qtpass.org/>

1.2 Installation

1.2.1 Dependencies

- QtPass requires Qt 5.2 or later.
- The Linguist package is required to compile the translations.
- For use of the fallback icons the SVG library is required.

At runtime the only real dependency is gpg2 but to make the most of it, you'll need git and pass too.

1.2.2 From source

On most *nix systems all you need is:

```
qmake && make && make install
```


Chapter 2

Changelog

Unreleased

[Full Changelog](#)

Fixed bugs:

- qtpass do not strip comments of gpg_id file [#625](#)
- Build Windows [#598](#)
- Please sign release 1.4.0-rc1 [#594](#)
- Create a new release 1.4.0 [#567](#)
- Crashes during free text search [#147](#)
- Program does not run in Windows 10 [#123](#)

Closed issues:

- Confusion about pass ecosystem [#657](#)
- No context menu [#522](#)

Merged pull requests:

- Fix build with Qt6. [#656](#) ([Vascom](#))

v1.4.0 (2023-09-17)

[Full Changelog](#)

Fixed bugs:

- Update website to reflect new brew command syntax [#601](#)
- Qtpass - not asking for password [#585](#)
- Missing menu [#574](#)

Merged pull requests:

- Initial Korean from Weblate [#655](#) ([annejan](#))
- Natural language fixes [#654](#) ([annejan](#))
- Translations update from Hosted Weblate [#650](#) ([weblate](#))
- Added Serbian and Estonian to project file [#649](#) ([annejan](#))
- Translations update from Hosted Weblate [#648](#) ([weblate](#))
- Translations update from Hosted Weblate [#647](#) ([weblate](#))
- Version bump and cleanup [#646](#) ([annejan](#))

1.4.0-rc2 (2023-08-31)

[Full Changelog](#)

Fixed bugs:

- OTP function stopped working [#630](#)
- Cannot decrypt own passwords; No secret key [#580](#)
- gpg not found on macOS [#575](#)
- Installation is failed using latest Homebrew in macOS [#564](#)
- Deleting a directory sometimes deletes the entire password store including git repositories [#556](#)

Closed issues:

- [Windows] Git repository not working [#638](#)
- support `PASSWORD_STORE_SIGNING_KEY` with profiles [#624](#)
- Support multiple branches via "Profiles" feature [#545](#)

Merged pull requests:

- clang-format -i src/*.cpp src/*.h #645 (annejan)
- Translations update from Hosted Weblate #644 (weblate)
- Fix taborder and add buddies in keygen dialog #643 (svuorela)
- Restore licensing info for QProgressIndicator #642 (svuorela)
- Clazy cleanup and other minor fixes #641 (svuorela)
- fix the unintended "running" of the entropy window in the keygen dial. . . #640 (lherschi)
- Translations update from Hosted Weblate #636 (weblate)
- Add pass store signing key feature #634 (timegrid)
- Translations update from Hosted Weblate #633 (weblate)
- Translations update from Hosted Weblate #632 (weblate)
- Translations update from Hosted Weblate #629 (weblate)
- Translations update from Hosted Weblate #628 (weblate)
- Translations update from Hosted Weblate #627 (weblate)
- Translations update from Hosted Weblate #626 (weblate)
- Translations update from Hosted Weblate #622 (weblate)
- markdownlint -fix && textlint -fix #621 (annejan)
- Document "Using profiles" #619 (buepro)
- Translations update from Hosted Weblate #618 (weblate)
- Translations update from Hosted Weblate #617 (weblate)
- super-linter ENV variables in shared location for local and automated #616 (annejan)
- fix bug => clipboard was not cleared when using primary selection #615 (pythcoiner)
- Translations update from Hosted Weblate #614 (weblate)
- Translations update from Hosted Weblate #613 (weblate)
- Removed travis (no longer free) and lgtm (migrated to Github) #612 (annejan)
- Translations update from Hosted Weblate #611 (weblate)
- Super Linter added and fixing findings #610 (annejan)
- New Transifex integration yml #609 (annejan)
- Install QT in codeql workflow #608 (annejan)
- Translations update from Hosted Weblate #607 (weblate)
- Translation cleanup #606 (annejan)
- translations updated #605 (annejan)
- Fix accidental deletion of entire passwordstore #604 (FSMaxB)
- Add more options for the password displaying #587 (13u)
- Delete context menu after exec #578 (fasked)
- Translations update from Hosted Weblate #576 (weblate)

1.4.0-rc1 (2021-09-22)

Full Changelog

Implemented enhancements:

- Set correct WM_CLASS for the qr-code popup [#506](#)

Fixed bugs:

- [QtPass](#) does not detect current \$GNUPGHOME and causes it to fail decryption [#569](#)
- `<tt> ... </tt>` included in password text [#542](#)
- Markup tags are left in password and clipboard [#533](#)
- Renaming passwords and directories fail [#487](#)
- Will not run on Windows 10 1903 b18362.418 [#486](#)

Closed issues:

- Hide results on search [#551](#)
- [QtPass](#) 1.3.2 freezes on macOS 10.15.6 when trying to display password [#544](#)
- Icons are blurry when fractional scaling is enabled [#525](#)
- [Request] clear search password when change profile [#524](#)
- Copying not possible on Ubuntu 20.04 [#521](#)
- UI can't handle passwords with periods in their name [#520](#)
- Display passwords in mono space font [#514](#)
- [QtPass](#) 1.3.2 for Ubuntu 19.10 (eoan) [#512](#)
- Default password visibility [#511](#)
- Consider mentioning export abilities in migration docs, if any are present [#505](#)
- Enable out-of-source (shadow) builds. [#501](#)
- password visibility can't be fully hidden [#496](#)
- Translations need updating and checking [#488](#)
- Frontend doesn't work well with HiDPI screen [#464](#)
- How to let [QtPass](#) use the real "pass" on windows [#458](#)
- Fresh install of Antergos with Deepin - High DPI scaling is not working [#417](#)
- Strange behavior when clearing filter [#402](#)
- Tray icon remains after quitting program [#401](#)
- [QtPass](#) doesn't work will pass in WSL [#375](#)
- UI is blurry on HiDPI screens on macOS (retina) since 1.2.x [#355](#)
- No prompt for passphrase for git key on windows. [#317](#)

- Config dialog's Password Generation field got crowded between 1.1.3 and 1.1.6 #278

Merged pull requests:

- Translations update from Weblate #573 (weblate)
- Fix keys created/expires dates in the users dialog window (fix: 571) #572 (nfetisov)
- Correct a typo in `pass.cpp` #570 (felixonmars)
- Fix installation instructions in `README.md` #565 (kawarimidoll)
- Translations update from Weblate #563 (weblate)
- Translations update from Weblate #562 (weblate)
- Translations update from Weblate #560 (weblate)
- Keep suffices when moving (to) a directory while initiating pass #559 (ichthyosaurus)
- Explicitly only remove ".gpg" when renaming files #558 (ichthyosaurus)
- Translations update from Weblate #554 (weblate)
- Translations update from Weblate #553 (weblate)
- Translations update from Weblate #552 (weblate)
- Translations update from Weblate #548 (weblate)
- Move `MainWindow` to the screen the cursor is on #547 (inhinias)
- Translations update from Weblate #541 (weblate)
- Translations update from Weblate #535 (weblate)
- Fix issues with renaming passwords and moving folders #532 (ChaoticEnigma)
- Translations update from Weblate #531 (weblate)
- Translations update from Weblate #530 (weblate)
- Clear search on profile change #529 (cmol)
- #514 Show password with a monospace font #528 (cmol)
- Update minimum Qt version #527 (cmol)
- Fix blurry icons when fractional scaling is enabled #526 (mthw0)
- Spelling: Git pull, Git push #516 (comradekingu)
- Enable ubuntu, windows and macOS based builds for CI #508 (boppybibbles)
- Enable out-of-source build #503 (boppybibbles)
- Use new stable version of `install-qt-action`. #502 (boppybibbles)
- Don't base pass-otp availability decision on hardcoded `/usr/lib` #499 (nh2)
- Spelling: Search for users, , #495 (comradekingu)
- Spelling: Keylist missing, Could not fetch, GPG #493 (comradekingu)
- Spelling: Git, GPG, PWGen, etc. #492 (comradekingu)
- Don't use a deprecated method #491 (amarsman)
- Issue #402: 'deselect()' on clearing filter #490 (petr-nehez)

v1.3.2 (2019-10-09)

[Full Changelog](#)

Fixed bugs:

- [QtPass](#) could not run on Windows7 thin [#485](#)
- Segfault on application startup (macOS) [#481](#)
- Application crashes on empty password store [#466](#)
- App is completely broken [#423](#)

Closed issues:

- Edit window on Gnome has no padding around [#484](#)
- Buttons width on RHEL 8 [#483](#)
- 'Start minimized' no longer works [#471](#)
- Editor doesn't wait for PGP key to decrypt [#470](#)
- v1.3.0 Data Not Showing [#465](#)
- Hangs on macOS after Security Update 2019-003 10.12.6 [#461](#)
- No public key [#308](#)

Merged pull requests:

- Don't call `QtPass::setup()` from [QtPass](#) class constructor (should fix [#466](#)) [#482](#) ([maciejsszmigiero](#))

v1.3.1 (2019-10-01)

[Full Changelog](#)

Implemented enhancements:

- Renaming password [#463](#)
- [Feature Request] Edit main title field [#446](#)

Fixed bugs:

- build: dependency issue [#467](#)
- is running but no gui [#451](#)

Closed issues:

- Additional lines (notes) are not shown [#474](#)
- Bundle ID is literally \$ (PRODUCT_BUNDLE_IDENTIFIER) [#448](#)

Merged pull requests:

- Add license scan report and status [#480](#) ([fossabot](#))
- Build tooling related fixes [#479](#) ([maciejsszmigiero](#))
- Add missing overrides [#478](#) ([amarsman](#))
- Main window entry details improvements [#477](#) ([maciejsszmigiero](#))
- Fix HTML links color and NL translation building error [#476](#) ([a-andreyev](#))
- Restore directories-first order of passwords tree view on non-Mac platforms [#475](#) ([maciejsszmigiero](#))
- Add missing finishedShow() signal connection in [PasswordDialog](#) constructor (fixes the "Edit password" function) [#473](#) ([maciejsszmigiero](#))
- Sorted profiles dropdown as in #404 [#472](#) ([Noettore](#))
- Add support for passwords and directories renaming as requested in #463 [#469](#) ([Noettore](#))
- Fix missing app ID and icon on Wayland. [#468](#) ([lightbulbjim](#))

v1.3.0 (2019-08-20)

Full Changelog

Implemented enhancements:

- Localization makes commits absolutely unreadable [#405](#)
- Add otp (two factor authentication) support [#327](#)
- Open specific entry from command-line parameter [#32](#)

Fixed bugs:

- Windows sigsev issues [#326](#)
- Access to the / (root) directory form within the application window on macOS [#302](#)
- PRNG seeding is done totally wrong [#238](#)
- Context menu on transparent fields is transparent too . . [#227](#)

Closed issues:

- various issues with Info.plist file on macOS [#457](#)
- Can not add new passwords for some reason [#454](#)
- GnuPG not found on Linux Mint [#433](#)

- How to clean up the app #429
- LAN sync request #427
- Profiles can not be removed #415
- Compilation error in (K)ubuntu 16.04.5 with sources tar.gz from version 1.2.3 #408
- Prevent from removing whole password-store directory and hidden directories and files #400
- Version information string/s #398
- We should select a C++ std too #372
- We should select a minimum Qt version #371
- Problem with GNUpg not found on macOS #362
- Compiling for Linux Mint 18 Ubuntu 16 #357
- make qtpass portable in windows #356
- Unable to see main application window (applicationn runs minimized to tray only) #286
- Startup variables and parameters #212
- [macOS] Password input dialog suddenly stopped popping up #191
- [MainWindow](#) is a giant monolithic mess #107

Merged pull requests:

- Use key fingerprint as ID instead of "long" ID. #452 ([Natureshadow](#))
- Typo: dialouge to dialogue. #444 ([georgjaehnig](#))
- Scripts and logic specific to Windows Store releases #439 ([rdoefffinger](#))
- For config check, check that the selected binary is available. #438 ([rdoefffinger](#))
- Fix character encoding issues for non-UTF-8 locales. #435 ([rdoefffinger](#))
- Fixes and improvments for config dialog #432 ([rdoefffinger](#))
- Support for using WSL binaries on Windows #431 ([rdoefffinger](#))
- Bugfixes and Windows compatibility improvements #430 ([mrsch](#))
- Semi-automatic code cleanup #425 ([annejan](#))
- Update to prevent the installer requesting admin #424 ([hughwilliams94](#))
- Display passwords as QR codes #421 ([frawi](#))
- Tested working on macOS HS with pinentry-mac #419 ([riccardocossu](#))
- Dutch (nl) translation improvements #418 ([equaeghe](#))
- Bugfixes #413 ([rdoefffinger](#))
- pwgen: fix inverted "Generate ... less secure passwords" checkbox #409 ([ahippo](#))
- Continuing refactoring #407 ([FiloSpaTeam](#))
- #390 make box cheched when opening a folder users panel #403 ([kenji21](#))

v1.2.3 (2018-06-04)

[Full Changelog](#)

Closed issues:

- Consider repology badges [#396](#)
- Unable to create new password [#391](#)
- Duplicate prefix in installation of tests directory in v1.2.2. [#389](#)
- Compilation error on FreeBSD member access into incomplete type [#388](#)
- No icons on macOS [#377](#)

Merged pull requests:

- Add support for OTP code generation on Linux as requested in [#327](#) [#394](#) ([Noettore](#))
- Revert scroll bar changes [#393](#) ([destanyol](#))
- Fix High Dpi Support. Works now under Windows and KDE/Plasma. [#392](#) ([hgraeber](#))

v1.2.2 (2018-05-07)

[Full Changelog](#)

Implemented enhancements:

- Cleaning #includes [#364](#) ([FiloSpaTeam](#))

Fixed bugs:

- Insecure Password Generation [#338](#)
- Clipboard clearing timer is not reset when new passwords are copied to the clipboard [#309](#)
- Removal of files outside of password-store [#300](#)
- Some fixes and refactoring. [#376](#) ([FiloSpaTeam](#))
- Fix & make clearClipboard more robust [#359](#) ([lukedirtwalker](#))

Closed issues:

- Multiple question marks while trying to delete password [#385](#)
- No button icons and text in "menu bar" [#383](#)
- Cannot add a new password [#380](#)
- Tiny bit of regression [#379](#)

- Running qtPass remotelly not prompting for the GPG key passphrase [#374](#)
- Entire program is huge on High DPI screen on Linux [#369](#)
- Two new issues since latest refactoring [#368](#)
- Chocolatey package outdated [#366](#)
- How do I change the language ? [#352](#)
- Parallel make issue in qtpass-1.2.1: ld: cannot find -lqtpass [#350](#)
- "copy" icon has disappeared in v1.2.1 [#344](#)
- No password entry prompt [#343](#)
- Can't install on macOS Sierra [#337](#)
- No icon on macOS [#333](#)
- Font and spacing used for URL links on right in main window absurdly large [#329](#)
- QtPass don't display all lines with templates [#273](#)

Merged pull requests:

- 2 simple fixes [#386](#) ([FiloSpaTeam](#))
- Should fix [#383](#) [#384](#) ([FiloSpaTeam](#))
- Move connect action to [main.cpp](#). Default search text as parameter of... [#382](#) ([FiloSpaTeam](#))
- fix [#380](#) [#381](#) ([FiloSpaTeam](#))
- Small refactoring. [#378](#) ([FiloSpaTeam](#))
- Sorry for last error :) [#370](#) ([FiloSpaTeam](#))
- Optimizations :) [#367](#) ([FiloSpaTeam](#))
- Removed comment out `#includes` [#365](#) ([FiloSpaTeam](#))
- fix for [#300](#) [#363](#) ([FiloSpaTeam](#))
- Translated all missing content to Italian, created Release of transla... [#361](#) ([FiloSpaTeam](#))
- Refactoring [#360](#) ([lukedirtwalker](#))
- Display all fields when using template setting, fixes [#273](#) [#358](#) ([lukedirtwalker](#))
- Update [CONTRIBUTING.md](#) [#354](#) ([5bentz](#))
- Add two entries in FAQ about the language [#353](#) ([5bentz](#))
- Fix typo in french translation [#349](#) ([babolivier](#))
- New scroll bar on large files [#347](#) ([destanyol](#))
- Fix nested template argument list compile error [#346](#) ([martinburchell](#))
- Honor PREFIX during tests install [#345](#) ([SpiderX](#))

v1.2.1 (2018-01-04)

Full Changelog

Closed issues:

- Question: is it possible to mass import passes? [#339](#)
- Version 1.2.0 leaks passwords [#334](#)
- signed release files [#332](#)
- 2017 [#330](#)
- When importing settings from 1.1.5 or older clipboard settings revert to No Clipboard [#232](#)

Merged pull requests:

- Insecure password generation [#342](#) ([annejan](#))
- Add Catalan translation [#336](#) ([rbuj](#))

v1.2.0 (2017-11-08)

Full Changelog

Implemented enhancements:

- Icon tray from system icon theme [#318](#)
- Copy button for each custom field [#291](#)
- Feature Request: Use primary selection instead of clipboard [#280](#)
- Add primary selection as clipboard option [#281](#) ([annejan](#))
- Feature: CTRL/CMD + Q closes the mainwindow [#258](#) [#259](#) ([YoshiMan](#))
- Feature/testing moved sources to src added tests [#257](#) ([annejan](#))
- enabled drag and drop support for passwords and passwordfolders [#245](#) ([YoshiMan](#))
- Password dialog decoupling from MW [#242](#) ([tezeb](#))
- Refactoring of qpushbuttonwithclipboard and timers [#241](#) ([tezeb](#))
- added a copy button for each line to paste the content into the clipboard, "pass init -- path=" command with right path-parameter, lupdate qtpass.pro [#218](#) ([YoshiMan](#))

Fixed bugs:

- Do not hide passwords and no generator [#267](#)
- Weird behavior when turning on git support (auto push/pull) with non-clean git dir [#128](#)
- [SingleApplication](#) implementation buggy [#26](#)

Closed issues:

- Tab order is wrong in password dialog [#331](#)
- Missing icons since split to static lib [#325](#)
- "-session XXX" upon session restore taken as search string [#320](#)
- Instructions to install it on OSX maybe outdated [#315](#)
- [QtPass](#) hangs when trying to decrypt entry [#313](#)
- Unable to locate package (Linux Mint 17.3) [#310](#)
- Git commit signing [#303](#)
- Add to Linux brew [#301](#)
- [Pass](#) 1.7 testing [#299](#)
- Measure unit-test code coverage [#298](#)
- Config dialog: Propose "Password behaviour" label change [#294](#)
- make install currently broken. [#289](#)
- Unable to locate package (Raspbian) [#287](#)
- There is no `git cp` [#272](#)
- pass is apparently switching out pwgen [#264](#)
- Bugs since refactoring [#262](#)
- pass working fine but qtprocess failure with qtpass [#260](#)
- Feature: CTRL/CMD + Q closes the mainwindow [#258](#)
- Refactoring: removal of lastDecrypt [#256](#)
- [Pass](#) environment not set-up correctly [#250](#)
- Make fails - std c++11 not set [#244](#)
- Double-clicking might open previous entry instead of one double-clicked on [#243](#)
- Clean up [ConfigDialog](#) [#235](#)

Merged pull requests:

- Extract static library and separate main function [#324](#) ([tezeb](#))
- galego actualizado [#323](#) ([xmgz](#))
- Add sftp, ftps, webdav and webdavs as supported links [#322](#) ([cgonzalez](#))
- Ignore cmdline arguments if -session is used. [#321](#) ([Achimh3011](#))
- Finished French translation (and proof-read the already translated strings). [#311](#) ([Marcool04](#))
- Once again, code coverage [#305](#) ([tezeb](#))
- Fixed path of resources.qrc [#297](#) ([sideeffect42](#))
- Add pt_PT translation [#295](#) ([keitalbame](#))
- Update [README.md](#) [#293](#) ([joostruis](#))

- small band aid fix for password generation on windows [#276](#) ([treat1](#))
- Final step in process mgmt refactoring [#275](#) ([tezeb](#))
- Fix pwgen and refactor [Pass::finished](#) [#271](#) ([tezeb](#))
- Process specific signals for process management [#270](#) ([tezeb](#))
- #239 reencrypting after a drag and drop action [#261](#) ([YoshiMan](#))
- this if evaluetes ervery time to true [#255](#) ([YoshiMan](#))
- executeing pass show before editpassword dialog shows up [#254](#) ([YoshiMan](#))
- Minor fix for filenames and git push [#251](#) ([tezeb](#))
- Process management refactoring part 2 [#249](#) ([tezeb](#))
- refactoring - pass ifce, process mgmt [#234](#) ([tezeb](#))
- Solve Doubleclick issue [#230](#) ([jounathaen](#))
- refactoring, new [QtPassSettings](#) class, all settings should be read and written here [#224](#) ([YoshiMan](#))
- Moved @YoshiMan 's copy buttons inside the line Edit [#222](#) ([jounathaen](#))
- UI Improvements [#220](#) ([jounathaen](#))
- creating password store directory, if it doesnot exists, de_DE translation fixes and removed obsolete translations [#216](#) ([YoshiMan](#))

v1.1.6 (2016-12-02)

Full Changelog

Implemented enhancements:

- Feedback on copy button use [#229](#)
- Clickable URLs + open in default browser [#226](#)
- Deselecting password re-opens the file [#221](#)
- Copy password button should include tooltip to say why, when disabled [#214](#)
- [QtPass](#) starts by searching for -psn_0_12345 on macOS [#213](#)
- Copy after timeout [#189](#)
- Feature Request: Copy template fields with button [#133](#)
- Cannot create top level folder [#127](#)
- Feature: moving items (reordering folders) [#116](#)

Fixed bugs:

- Regression with new view mode when using templates and URLs [#223](#)
- Problems with high dpi screen [#217](#)
- Hangs forever on Generate GnuPG keypair [#215](#)

- recent change to [passworddialog.cpp](#) #188
- Re-opening entry in [QtPass](#) on Windows does not put login or URL values back in the right place #183

Closed issues:

- Click does not stick #233
- Doubleclick on Treeview does not open the edit dialouge #228
- Windows - Enable GPG SSH Authentication #225
- We need autotype . . #65

v1.1.5 (2016-10-19)

Full Changelog

Implemented enhancements:

- I translated for Simplified Chinese. #208
- Short fullname hangs [QtPass](#) keypair generation process for infinite time #202
- More options for password generation #98
- Git hangs on windows #71

Fixed bugs:

- view box is trimming whitespace #210

Closed issues:

- PREFIX is now really a prefix #185
- [QtPass](#), git and windows #173

Merged pull requests:

- Allow ssh links #211 ([cgonzalez](#))
- Increase maximum password length to 255 #209 ([vladimiroff](#))
- Password templates #207 ([jounathaen](#))
- Updated German Translation #206 ([jounathaen](#))
- Italian translation #204 ([dakk](#))
- keygendialog email and name validation (issue 202) #203 ([dakk](#))
- Lookup validity field to check if keys are valid #201 ([thotypous](#))
- Fix spelling error #200 ([innir](#))

v1.1.4 (2016-09-26)

Full Changelog

Implemented enhancements:

- Re-assign permissions when adding users [#161](#)
- Main window immediately closes upon app launch [#139](#)

Fixed bugs:

- German umlauts fails [#192](#)
- Error after change configuration [#190](#)
- Bug: Special characters in Template [#131](#)
- Character encoding issue with GPG key [#101](#)
- saved password '§' turns to 'Â§' when copied to clipboard or shown when editing [#91](#)

Closed issues:

- Signed releases [#186](#)
- Why it's not listed in wikipedia.org/wiki/List_of_password_managers ? [#164](#)
- Bitdefender blocks installation and quarantines the .exe and .ink [#138](#)

Merged pull requests:

- issue 91 bugfix [#199](#) ([asalamon74](#))
- issue 101 bugfix [#198](#) ([asalamon74](#))
- Czech translation [#195](#) ([svetlemodry](#))

v1.1.3 (2016-06-10)

Full Changelog

Fixed bugs:

- edit of password broken with active "Automatically push" [#177](#)
- Clipboard not cleared when quitting or killing application [#171](#)
- Hide content doesn't work when using templates [#160](#)

Closed issues:

- Add a (small) manpage [#174](#)

v1.1.2 (2016-06-10)

Full Changelog

Implemented enhancements:

- qtpass on windows, space in front of URL and Username [#182](#)

Fixed bugs:

- Deletion of folder doesn't work on Debian/GNU Linux [#181](#)

Closed issues:

- gpg: decryption failed: No secret key [#179](#)
- "gpg-agent: command get_passphrase failed: No such file or directory" [#156](#)

Merged pull requests:

- add Appdata file and update desktop file [#178](#) ([daveol](#))
- HTTPS everywhere [#176](#) ([da2x](#))
- Fix build issues with MSVC2015 on Windows [#175](#) ([msvi](#))

v1.1.1 (2016-04-04)

Full Changelog

Implemented enhancements:

- Signed binaries [#149](#)
- Icon theme and Cinnamon [#146](#)
- Bind a key to the clear action [#142](#)
- Installation dependencies [#140](#)
- All text input fields need example text & edit dialogue changes [#85](#)
- OSX: Qt-window closed only reappears when 'active' and using tray icon [#77](#)

Fixed bugs:

- Spelling bug: German translation of push and pull [#110](#)
- gpg: decryption failed: No secret key [#92](#)

Closed issues:

- Remove outdated Debian packaging [#165](#)
- Same name for file and folder [#159](#)
- Icons don't work on nixos [#157](#)
- gpg: Sorry, we are in batchmode - can't get input [#151](#)

Merged pull requests:

- update and Russian translation [#170](#) ([ahippo](#))
- Remove path to password store in commit message and a leading space. [#169](#) ([ahippo](#))
- Use --secure for pwgen and add more configurable options [#168](#) ([ahippo](#))
- Remove Debian packaging [#166](#) ([innir](#))
- update gl_Es [#162](#) ([xmgz](#))
- Two UI Tweaks [#158](#) ([lft1](#))
- configwindow.ui default/start tab set to "settings" [#154](#) ([jounathaen](#))
- FAQ update concerning button-icons on cinnamon [#153](#) ([jounathaen](#))

v1.1.0 (2016-01-25)[Full Changelog](#)**Implemented enhancements:**

- Clear text input: use system icon instead of x [#84](#)
- System Icons on Buttons and Doubleclick on treeView [#124](#) ([jounathaen](#))

Closed issues:

- [resolved] Error in compiling macOS El capitan [#148](#)

Merged pull requests:

- Pre 1.1 mixing [#145](#) ([annejan](#))
- RPM Spec file updates [#137](#) ([muff1nman](#))
- swedish translations [#135](#) ([ralphtheninja](#))

v1.0.6 (2016-01-03)

Full Changelog

Implemented enhancements:

- Feature: Always on top [#118](#)
- Option to show minimized instance [#99](#)

Fixed bugs:

- Bug: deleted record stays in memory [#117](#)

Closed issues:

- SIGSEGV in MainWindow::executeWrapper on clean install [#122](#)

Merged pull requests:

- improved the German translation [#134](#) ([retokromer](#))
- grand always generating the same sequence of passwords [#129](#) ([treat1](#))
- some improvements [#126](#) ([retokromer](#))
- added one translation [#125](#) ([retokromer](#))
- initial attempt to create a RPM spec file [#121](#) ([bram-ivs](#))
- Cleanup and coding standards [#120](#) ([annejan](#))
- Modified the clipboard logic to allow for on-demand copy to clipboard. [#119](#) ([jonhanks](#))

v1.0.5 (2015-11-18)

Full Changelog

Fixed bugs:

- using pwgen adds carriage-return [#115](#)
- Enhancement: color code git results [#111](#)

Merged pull requests:

- Fix bug that prints "Unknown error" to the terminal [#113](#) ([dvaerum](#))

v1.0.4 (2015-11-03)

[Full Changelog](#)

Implemented enhancements:

- Add support for RightToLeft languages [#108](#)

v1.0.3 (2015-10-25)

[Full Changelog](#)

Implemented enhancements:

- Get PREFIX variable from environment [#106](#)
- Password file named 'git' returns error [#105](#)

Merged pull requests:

- Get PREFIX variable from environment [#104](#) ([jorti](#))
- spanish translations added [#103](#) ([mrpnkt](#))

v1.0.2 (2015-09-24)

[Full Changelog](#)

Closed issues:

- Generate password: Floating point exception (core dumped) [#102](#)
- A way to indicate the installation prefix is needed [#100](#)
- IPv4 URLs are non-clickable [#97](#)
- app crashes when "Use pwgen" is unselected, and "Generate" is clicked. [#95](#)
- Some minor improvements on the templating part [#93](#)
- app crashes with variant of "pwgen" app [#90](#)

v1.0.1 (2015-08-09)

[Full Changelog](#)

Implemented enhancements:

- Users setup - key colours could be improved [#82](#)

Closed issues:

- When [QtPass](#) starts, focus search input box [#89](#)
- Clear the password display after some time [#86](#)
- Auto push/pull [#83](#)
- qtpass doesn't commit deletes to git [#81](#)
- Always crashes while using the quick-search input [#79](#)
- Git initialisation [#72](#)
- Initialising new repo's doesn't work correctly [#55](#)
- gpg: Sorry, no terminal at all requested - can't get input [#18](#)

Merged pull requests:

- Issue 86 clear panel [#87](#) ([karlgrz](#))
- Update FAQ for Yubikey NEO helper in .bashrc for Ubuntu [#80](#) ([karlgrz](#))
- [WIP] Call 'pass git init' on creation of password-store when useGit [#78](#) ([dennisdegreef](#))

v1.0.0 (2015-08-01)

[Full Changelog](#)

Closed issues:

- Yubikey Neo Pin entry not working properly on Ubuntu 15.04 [#73](#)

Merged pull requests:

- Updating hungarian localisation [#76](#) ([damnlie](#))
- added DE translations [#74](#) ([Friedy](#))

v0.9.2 (2015-07-30)

[Full Changelog](#)

Closed issues:

- Show expiration date in key setup [#70](#)

v0.9.1 (2015-07-29)

[Full Changelog](#)

Closed issues:

- Minimize on startup. [#69](#)
- tray icon in xfce [#58](#)
- Git intergration [#57](#)
- Weird characters in filenames breaks loading gpg files [#10](#)

v0.9.0 (2015-07-17)

[Full Changelog](#)

Closed issues:

- Request: Integrate qtpass with pwgen for generating passwords. [#68](#)

v0.8.6 (2015-07-17)

[Full Changelog](#)

Closed issues:

- Copy password by Ctrl+C [#60](#)
- Remember window size and vertical pane width [#59](#)
- Multiline Editing [#34](#)

Merged pull requests:

- To make building successfull wi Desktop Qt 5.4.0 MSVC2012 OpenGL 32bit [#67](#) ([annejan](#))

v0.8.5.1 (2015-07-08)

[Full Changelog](#)

v0.8.5 (2015-07-08)

[Full Changelog](#)

Closed issues:

- Won't compile on Kubuntu 15.10 [#61](#)
- Hanging process gives weird effects [#56](#)
- Directory separator actually broken by 208171fd09c55ad765fdf4fa1de9a7f0757fa72d [#53](#)

Merged pull requests:

- Many deadlocks and other nasty bugfixes [#64](#) ([annejan](#))
- Mention qt5-default package in README [#62](#) ([lorrin](#))
- Some hacks I needed for portable gpg4win release [#54](#) ([rdoeffinger](#))

v0.8.4 (2015-06-11)

[Full Changelog](#)

Closed issues:

- [QtPass](#) does not detect GPG installation [#50](#)
- Cannot create new folders [#48](#)
- Better error handling when no pass or gpg found initially [#13](#)

Merged pull requests:

- Develop [#52](#) ([annejan](#))
- Minor thingies [#51](#) ([beefcurtains](#))

v0.8.3 (2015-06-09)

[Full Changelog](#)

Merged pull requests:

- Bugfixes [#49](#) ([rdoeffinger](#))

v0.8.2 (2015-05-27)

[Full Changelog](#)

Closed issues:

- Typo in 37f17f3808c1c97bd72c165a530c67a4bf82edb? [#45](#)
- Signing of keys from user management [#41](#)

Merged pull requests:

- Provide more information in user list. [#47](#) ([rdoeffinger](#))
- Enable C++11 and use it to simplify loops. [#46](#) ([rdoeffinger](#))

v0.8.1 (2015-05-06)

[Full Changelog](#)

Fixed bugs:

- Some items not found on first search [#8](#)

Closed issues:

- compiling qtpass on ubuntu 15.04 - fails due to newer qmake version [#43](#)
- QProcess::start: Process is already running [#40](#)
- Extra line breaks seem to be added to the (HTML) output [#39](#)
- Missing develop branch and release testing [#38](#)
- Windows WebDAV broken by 24f8dec3c203921f765e923e6ae6a4069b8cf50a [#36](#)
- .gpg-id file not added to git [#35](#)
- Icon filenames [#31](#)
- GNUPGHOME environment variable [#30](#)
- Feature: webdav alternative to git [#28](#)
- Windows: not working due to pointless use of "sh" [#16](#)
- Windows: support static build and enable ASLR and NX [#15](#)
- Some paths to executables are printed when starting up [#11](#)

Merged pull requests:

- [SingleApplication](#) per user and leading newline removed from output [#44](#) ([annejan](#))

- User filtering and many fixes #42 ([annejan](#))
- Re-enable Windows WebDAV support. #37 ([rdoefffinger](#))
- User robustness #33 ([rdoefffinger](#))
- Add WebDAV support. #29 ([rdoefffinger](#))
- Add nosingleapp config. #27 ([rdoefffinger](#))
- Add Makefile with commands to make a binary release zip file. #25 ([rdoefffinger](#))
- Start process only after we finished disabling UI elements etc. #24 ([rdoefffinger](#))
- Support for editing .gpg-id via GUI with public keyring list. #23 ([rdoefffinger](#))
- More proper support for subdirectories. #22 ([rdoefffinger](#))
- Russian translation (+typo fixed) #20 ([mexus](#))
- Windows-related fixes. #17 ([rdoefffinger](#))
- Deal with "special" characters #14 ([JiCiT](#))
- galician and spanish localization files created #12 ([xmgz](#))
- Update localization_hu_HU.ts #9 ([damnlie](#))
- Replace which invocations with actual path resolution code #7 ([shitbangs](#))
- Added Swedish and Polish localization to resources #6 ([iamtew](#))
- Swedish localization #5 ([iamtew](#))
- Update localization_hu_HU.ts #4 ([reesenemesis](#))
- Update localization_hu_HU.ts #3 ([reesenemesis](#))
- `pass` #2 ([guaka](#))
- Beginning of German translation #1 ([mwfc](#))

Chapter 3

Contributor Covenant Code of Conduct

Our Pledge

In the interest of fostering an open and welcoming environment, we as contributors and maintainers pledge to making participation in our project and our community a harassment-free experience for everyone, regardless of age, body size, disability, ethnicity, sex characteristics, gender identity and expression, level of experience, education, socio-economic status, nationality, personal appearance, race, religion, or sexual identity and orientation.

Our Standards

Examples of behavior that contributes to creating a positive environment include:

- Using welcoming and inclusive language
- Being respectful of differing viewpoints and experiences
- Gracefully accepting constructive criticism
- Focusing on what is best for the community
- Showing empathy towards other community members

Examples of unacceptable behavior by participants include:

- The use of sexualized language or imagery and unwelcome sexual attention or advances
- Public or private harassment
- Publishing others' private information, such as a physical or electronic address, without explicit permission
- Other conduct which could reasonably be considered inappropriate in a professional setting

Our Responsibilities

Project maintainers are responsible for clarifying the standards of acceptable behavior and are expected to take appropriate and fair corrective action in response to any instances of unacceptable behavior.

Project maintainers have the right and responsibility to remove, edit, or reject comments, commits, code, wiki edits, issues, and other contributions that are not aligned to this Code of Conduct, or to ban temporarily or permanently any contributor for other behaviors that they deem inappropriate, threatening, offensive, or harmful.

Scope

This Code of Conduct applies both within project spaces and in public spaces when an individual is representing the project or its community. Examples of representing a project or community include using an official project e-mail address, posting via an official social media account, or acting as an appointed representative at an online or offline event. Representation of a project may be further defined and clarified by project maintainers.

Enforcement

Instances of abusive, harassing, or otherwise unacceptable behavior may be reported by contacting the project team at help@qtpass.org. All complaints will be reviewed and investigated and will result in a response that is deemed necessary and appropriate to the circumstances. The project team is obligated to maintain confidentiality with regard to the reporter of an incident. Further details of specific enforcement policies may be posted separately.

Project maintainers who do not follow or enforce the Code of Conduct in good faith may face temporary or permanent repercussions as determined by other members of the project's leadership.

Attribution

This Code of Conduct is adapted from the [Contributor Covenant](https://www.contributor-covenant.org/version/1/4/code-of-conduct.html), version 1.4, available at <https://www.contributor-covenant.org/version/1/4/code-of-conduct.html>

For answers to common questions about this code of conduct, see <https://www.contributor-covenant.org/faq>

Chapter 4

Contributing

Make sure you have read the [FAQ](#)

Thank you for wanting to contribute to making [QtPass](#) awesome.

This document

This document is still in a very early stage and needs a lot more work.

Pull Request Process

1. Ensure install or build dependencies and artefacts are not committed.
 2. When adding big new features or changes to the build tool, update the [README.md](#) to reflect those.
 3. Make sure you update all of the CI configs if need be. These are ran on every Pull Request.
-
1. Increase the version numbers in relevant files when applicable. The versioning scheme we use is [SemVer](#).
 2. You may merge the Pull Request in once you have the sign-off of one other developer, or if you do not have permission to do that, you may request a reviewer to merge it for you.

Translations

- Add you language to the `src/src.pro` file under TRANSLATIONS.
- Next run the command `qmake` which will create and update the localization files.
- Edit your file with (let's imagine your language is sv_SE (Swedish) `linguist localization/localization_↵_sv_SE.ts`

Qt Linguist has very nice in-context translation options [for translators](#)

You can do online translations via [Weblate](#)

IRC

For questions or brainstorming about features please join #ijhack on freenode.

Gitter

Or if you prefer to use [gitter](#)

License

[QtPass](#) is released under the GNU GPL v3.0 license. <http://www.gnu.org/licenses/gpl-3.0.html>↔

Chapter 5

FAQ

Issues

Can't save a password

- Is folder initialised? Easiest way is to use the [Users] button and make sure you can encrypt for someone (eg. yourself)
- Are you using git? If not, make sure it is switched off.

I have an issue with GNOME keyring

- Disable GNOME keyring
- Create a `~/ .gnupg/gpg-agent.conf` containing:

```
enable-ssh-support
write-env-file
use-standard-socket
default-cache-ttl 600
max-cache-ttl 7200
```

Also, the following is useful to add to your `.bashrc` if you are using Yubikey NEO on Ubuntu:

```
# OpenPGP applet support for YubiKey NEO
if [ ! -f /tmp/gpg-agent.env ]; then
    killall gpg-agent;
    eval $(gpg-agent --daemon --enable-ssh-support > /tmp/gpg-agent.env);
fi
. /tmp/gpg-agent.env
```

- More info: [issue 60](#) and [issue 73](#)

I don't get a passphrase / PIN dialog

- You'll need to install `pinentry-qt` (or `-qt4` or `-qt5` or even `-gtk`) and possibly set the full path to that executable in your `~/ .gnupg/gpg-agent.conf` for example: `pinentry-program /usr/bin/pinentry-qt4`
- On some esoteric systems it might be necessary to create a symbolic link `/usr/bin/pinentry` to your pinentry application of choice eg: `ln -s /usr/bin/pinentry-qt5 /usr/bin/pinentry`
- On macOS `pinentry-program /usr/local/bin/pinentry-mac` works after installing `pinentry-mac` from homebrew.

I have an other issue with gpg

- Possibly you have you key only in gpg and not in gpg2

```
gpg --export [ID] > public.key
gpg --export-secret-key [ID] > private.key
gpg2 --import public.key
gpg2 --import private.key
rm public.key private.key
```

Where [ID] is your gpg key-id.

- It might be the case where it is the other way around, exchange gpg and gpg2 accordingly . .

Git doesn't work on Windows

git for Windows comes with an `ssh-askpass` compatible command, `git gui--askpass` (located in `/mingw64/libexec/git-core/git-gui--askpass` on PortableGit version, presumably some place similar for the installed version).

Git has issues with GPG SSH Authentication

This tutorial might resolve your issues. <https://github.com/git-for-windows/git/wiki/OpenSSH-Integration-with-Pageant>

Where is the configuration stored?

QtPass tries to use the native config choice for the OS it's running.

- Linux and BSD: `$HOME/.config/IJHack/QtPass.conf`
- macOS: `$HOME/Library/Preferences/com.IJHack.QtPass.plist`
- Windows registry: `HKEY_CURRENT_USER\Software\IJhack\QtPass`

These settings can be over-ruled by a `qtpass.ini` file in the folder where the application resides. So called "portable config".

There are some things to take care of when trying to sync on some systems (especially OSX, with regards to text and binary .plist files).

More information: <http://doc.qt.io/qt-5/qsettings.html#platform-specific-notes>

Where can I ask for help?

- Create an [issue](#) issues on GitHub.
- Send an email to help@qtpass.org

Can I import from KeePass, LastPass or X?

- Yes, check passwordstore.org/#migration for more info.

I don't see icons on the buttons

You do not have the Qt SVG library installed. Please install using your favorite package manager.

I get icons that do not fit my (X11) default

- On some WindowManagers, Qt doesn't know what icon set to use. A trick:

```
export DESKTOP_SESSION=gnome
```

- Another possible reason is, that the currently installed Qt Version gives problems (e.g. on Linux Mint 17.3) Then you'll have to install the current version via your package manager or if this is not up-to-date, download it from <https://www.qt.io/download/> install it and run:

```
/PATHTOYOURQTINSTALLATION/5.5/gcc_64/bin/qmake
make
(sudo) make install
```

where PATHTOYOURINSTALLATION is the path you selected in the qt installer (default `/home/YOURUSER/Qt/`) and 5.5 has to be adapted for the Qt version you downloaded.

I don't like the design, what gives?

- It's all on GitHub, clone, change and send a pull request.
- Open an issue and point out defects or better yet propose changes.

QtPass is not in my native language

- Unfortunately, QtPass might not support your native language, or the translations might be incomplete. Check if newer versions of QtPass support it.
- If translations are available but aren't working, try to set the language manually (see below) or open an issue.

How do I set the language manually?

QtPass uses the system language. Changing it depends on your system:

- on Linux: `LANGUAGE=fr` qtpass will run QtPass in French.

How can I help improve QtPass?

I would like to donate

- Time:
 - Read [contributing](#) documentation.
 - Fork, clone hack and send a pull request.
 - Find an [issue](#) to work on..
 - Participate in our bug bounty, you submit an issue and help us fix it, I send you a bounty.
- Money:
 - IJhack takes donations in [Bitcoin](#)

Chapter 6

QtPass

QtPass is a GUI for `pass`, the standard unix password manager.

Features

- Using `pass` or `git` and `gpg2` directly
- Configurable shoulder surfing protection options
- Cross platform: Linux, BSD, macOS and Windows
- Per-folder user selection for multi recipient encryption
- Multiple profiles
- Easy onboarding

Logo based on `Heart-padlock` by AnonMoos.

Installation

From package

OpenSUSE & Fedora `yum install qtpass` `dnf install qtpass`

Debian, Ubuntu and derivatives like Mint, Kali & Raspbian `apt-get install qtpass`

Arch Linux `pacman -S qtpass`

Gentoo `emerge -atv qtpass`

Sabayon `equo install qtpass`

FreeBSD `pkg install qtpass`

macOS `brew install --cask qtpass`

Windows `choco install qtpass`

From Source

Dependencies

- [QtPass](#) requires Qt 5.10 or later (Qt 6 works too)
- The Linguist package is required to compile the translations.
- For use of the fallback icons the SVG library is required.

At runtime the only real dependency is `gpg2` but to make the most of it, you'll need `git` and `pass` too.

Your GPG has to be set-up with a graphical pinentry when applicable, same goes for git authentication. On Mac macOS this currently seems to only work best with `pinentry-mac` from homebrew, although `gpgtools` works too.

On most unix systems all you need is:

```
qmake && make && make install
```

Using profiles

Profiles allow to group passwords. Each profile might use a different git repository and/or different gpg key. Each profile also can be associated with a pass store signing key to verify the detached `.gpg-id` signature. A typical use case is to separate personal and work passwords.

Hint

Instead of using different git repositories for the various profiles passwords could be synchronized with different branches from the same repository. Just clone the repository into the profile folders and checkout the related branch.

Example

The following commands set up two profile folders:

```
cd ~/.password-store/  
git clone https://github.com/vendor/personal-passwords personal && echo "personal/" >> .gitignore  
git clone https://github.com/company/group-passwords work && echo "work/" >> .gitignore  
pass init -p personal [personal GnuPG-ID] && git -C personal push  
pass init -p work [work GnuPG-ID] && git -C work push
```

Note:

- Replace `[personal GnuPG-ID]` and `[work GnuPG-ID]` with the ID from the related GnuPG key.
- The parts `echo ... >> .gitignore` are just needed in case there is a git repository present in the base directory.

Once the repositories and GnuPG-ID's have been defined the profiles can be set up in [QtPass](#).

Links of interest

- [Git Tools - Credential Storage](#)
- [Dealing with secrets](#)
- [Git Credential Manager](#)
- [password-store](#)

Testing

This is done with `make check`

Codecoverage can be done with `make lcov,make gcov,make coveralls` and/or `make codecov`.

Be sure to first run: `make distclean && qmake CONFIG+=coverage qtpass.pro`

Security considerations

Using this program will not magically keep your passwords secure against compromised computers even if you use it in combination with a smartcard.

It does protect future and changed passwords though against anyone with access to your password store only but not your keys. Used with a smartcard it also protects against anyone just monitoring/copying all files/keystrokes on that machine and such an attacker would only gain access to the passwords you actually use. Once you plug in your smartcard and enter your PIN (or due to CVE-2015-3298 even without your PIN) all your passwords available to the machine can be decrypted by it, if there is malicious software targeted specifically against it installed (or at least one that knows how to use a smartcard).

To get better protection out of use with a smartcard even against a targeted attack I can think of at least two options:

- The smartcard must require explicit confirmation for each decryption operation. Or if it just provides a counter for decrypted data you could at least notice an attack afterwards, though at quite some effort on your part.
- Use a different smartcard for each (group of) key.
- If using a YubiKey or U2F module or similar that requires a "button" press for other authentication methods you can use one OTP/U2F enabled WebDAV account per password (or groups of passwords) as a quite inconvenient workaround. Unfortunately I do not know of any WebDAV service with OTP support except ownCloud (so you would have to run your own server).

Known issues

- Filtering (searching) breaks the tree/model sometimes
- Starting without a correctly set password-store folder gives weird results in the tree view

Planned features

- Plugins based on field name, plugins follow same format as password files
- Colour coding folders (possibly disabling folders you can't decrypt)
- Optional table view of decrypted folder contents
- Opening of (basic auth) URLs in default browser? Possibly with helper plugin for filling out forms?
- WebDAV (configuration) support
- Some other form of remote storage that allows for accountability / auditing (web API to retrieve the .gpg files?)

Further reading

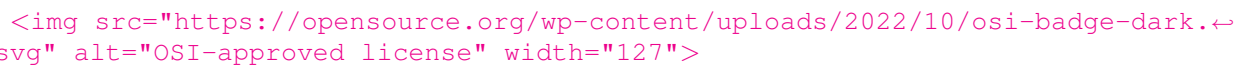
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Chapter 7

Todo List

Member `ConfigDialog::genKey` (QString, QDialog *)

refactor the process to not be entangled so much.

Member `ConfigDialog::wizard` ()

make this thing more reliable.

Chapter 8

Namespace Index

8.1 Namespace List

Here is a list of all namespaces with brief descriptions:

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Chapter 9

Hierarchical Index

9.1 Class Hierarchy

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Chapter 10

Class Index

10.1 Class List

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Holds values to share between drag and drop on the passwordstorage view	67
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Executor	
Executes external commands for handling password, git and other data	68
FileContent	77
ImitatePass	
Imitates pass features when pass is not enabled or available	79
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Does way too much, not only is it a switchboard, configuration handler and more, it's also the process-manager	95
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NamedValues	
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Pass	
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Stylish widget to display the field as QR Code	158
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RealPass	
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simpleTransaction	254
SingleApplication	
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Stores key info lines including validity, creation date and more	278
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Chapter 11

File Index

11.1 File List

Here is a list of all files with brief descriptions:

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Chapter 12

Namespace Documentation

12.1 Enums Namespace Reference

Enumerators for configuration and runtime items.

Enumerations

- enum `clipBoardType` { `CLIPBOARD_NEVER` = 0 , `CLIPBOARD_ALWAYS` = 1 , `CLIPBOARD_ON_DEMAND` = 2 }
- enum `PROCESS` {
 `GIT_INIT` = 0 , `GIT_ADD` , `GIT_COMMIT` , `GIT_RM` ,
 `GIT_PULL` , `GIT_PUSH` , `PASS_SHOW` , `PASS_INSERT` ,
 `PASS_REMOVE` , `PASS_INIT` , `GPG_GENKEYS` , `PASS_MOVE` ,
 `PASS_COPY` , `GIT_MOVE` , `GIT_COPY` , `PROCESS_COUNT` ,
 `INVALID` , `PASS_OTP_GENERATE` }

12.1.1 Detailed Description

Enumerators for configuration and runtime items.

12.1.2 Enumeration Type Documentation

12.1.2.1 clipBoardType

```
enum Enums::clipBoardType
```

Enumerator

<code>CLIPBOARD_NEVER</code>	
<code>CLIPBOARD_ALWAYS</code>	
<code>CLIPBOARD_ON_DEMAND</code>	

Definition at line 10 of file [enums.h](#).

12.1.2.2 PROCESS

enum [Enums::PROCESS](#)

Enumerator

GIT_INIT	
GIT_ADD	
GIT_COMMIT	
GIT_RM	
GIT_PULL	
GIT_PUSH	
PASS_SHOW	
PASS_INSERT	
PASS_REMOVE	
PASS_INIT	
GPG_GENKEYS	
PASS_MOVE	
PASS_COPY	
GIT_MOVE	
GIT_COPY	
PROCESS_COUNT	
INVALID	
PASS_OTP_GENERATE	

Definition at line 16 of file [enums.h](#).

12.2 Ui Namespace Reference

Chapter 13

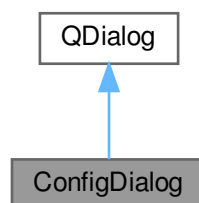
Class Documentation

13.1 ConfigDialog Class Reference

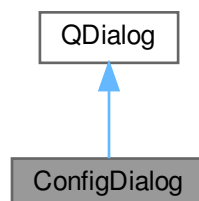
The [ConfigDialog](#) handles the configuration interface.

```
#include <configdialog.h>
```

Inheritance diagram for ConfigDialog:



Collaboration diagram for ConfigDialog:



Public Member Functions

- [ConfigDialog](#) ([MainWindow](#) *parent)
[ConfigDialog::ConfigDialog](#) this sets up the configuration screen.
- [~ConfigDialog](#) ()
[ConfigDialog::~~ConfigDialog](#) config destructor, makes sure the mainWindow knows about git, gpg and pass executables.
- void [useSelection](#) (bool useSelection)
[ConfigDialog::useSelection](#) set the clipboard type use from [MainWindow](#).
- void [useAutoclear](#) (bool useAutoclear)
[ConfigDialog::useAutoclear](#) set the clipboard autoclear use from [MainWindow](#).
- void [useAutoclearPanel](#) (bool useAutoclearPanel)
[ConfigDialog::useAutoclearPanel](#) set the panel autoclear use from [MainWindow](#).
- [QHash< QString, QHash< QString, QString > >](#) [getProfiles](#) ()
[ConfigDialog::getProfiles](#) return profile list.
- void [wizard](#) ()
[ConfigDialog::wizard](#) first-time use wizard.
- void [genKey](#) (QString, QDialog *)
[ConfigDialog::genKey](#) tunnel function to make [MainWindow](#) generate a gpg key pair.
- void [useTrayIcon](#) (bool useSystray)
[ConfigDialog::useTrayIcon](#) set preference for using trayicon. Enable or disable related checkboxes accordingly.
- void [useGit](#) (bool useGit)
[ConfigDialog::useGit](#) set preference for using git.
- void [useOtp](#) (bool useOtp)
[ConfigDialog::useOtp](#) set preference for using otp plugin.
- void [useQrencode](#) (bool useQrencode)
[ConfigDialog::useOtp](#) set preference for using otp plugin.
- void [setPwgenPath](#) (QString)
[ConfigDialog::setPwgenPath](#) set pwgen executable path. Enable or disable related options in the interface.
- void [usePwgen](#) (bool usePwgen)
[ConfigDialog::usePwgen](#) set preference for using pwgen (can be overruled buy empty pwgenPath). enable or disable related options in the interface via [ConfigDialog::on_checkBoxUsePwgen_clicked](#).
- void [setPasswordConfiguration](#) (const [PasswordConfiguration](#) &config)
- [PasswordConfiguration](#) [getPasswordConfiguration](#) ()
- void [useTemplate](#) (bool useTemplate)
[ConfigDialog::useTemplate](#) set preference for using templates.

Protected Member Functions

- void [closeEvent](#) (QCloseEvent *event)
[ConfigDialog::closeEvent](#) close this window.

13.1.1 Detailed Description

The [ConfigDialog](#) handles the configuration interface.

This class should also take the handling from the [MainWindow](#) class.

Definition at line 24 of file [configdialog.h](#).

13.1.2 Constructor & Destructor Documentation

13.1.2.1 ConfigDialog()

```
ConfigDialog::ConfigDialog (  
    MainWindow * parent ) [explicit]
```

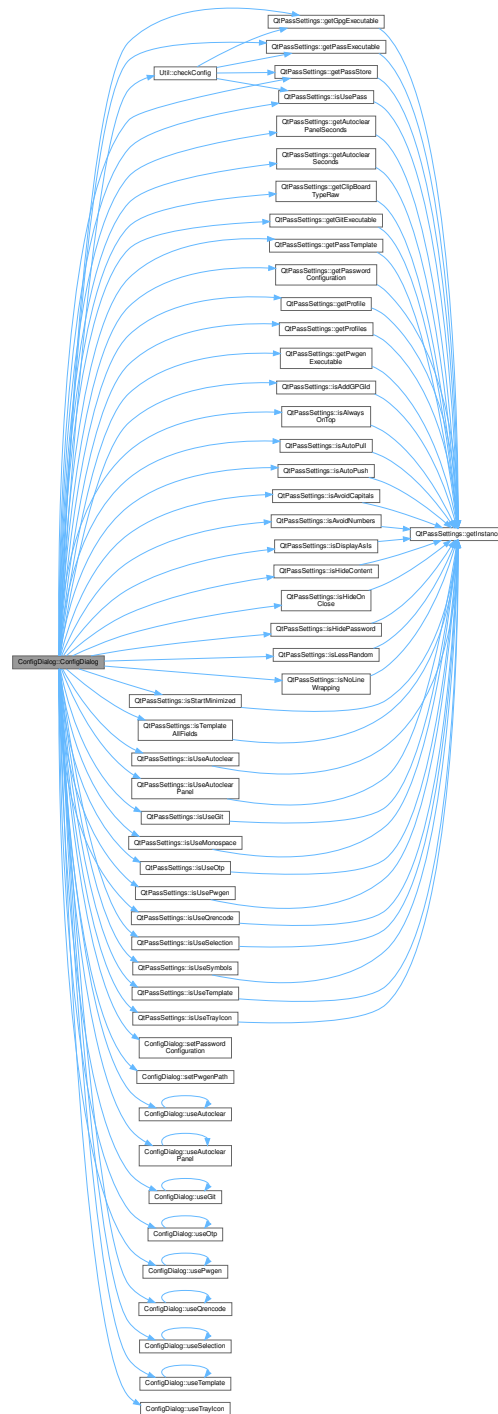
[ConfigDialog::ConfigDialog](#) this sets up the configuration screen.

Parameters

<i>parent</i>	
---------------	--

Definition at line 26 of file [configdialog.cpp](#).

Here is the call graph for this function:



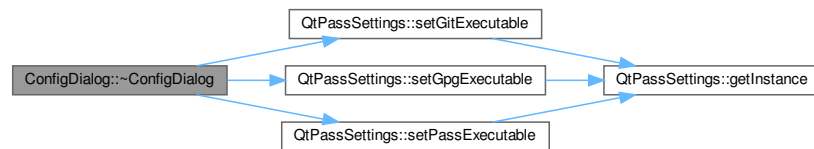
13.1.2.2 ~ConfigDialog()

```
ConfigDialog::~ConfigDialog ( )
```

[ConfigDialog::~~ConfigDialog](#) config destructor, makes sure the mainWindow knows about git, gpg and pass executables.

Definition at line 137 of file [configdialog.cpp](#).

Here is the call graph for this function:



13.1.3 Member Function Documentation

13.1.3.1 closeEvent()

```
void ConfigDialog::closeEvent (
    QCloseEvent * event ) [protected]
```

[ConfigDialog::closeEvent](#) close this window.

Parameters

<i>event</i>	
--------------	--

Definition at line 720 of file [configdialog.cpp](#).

13.1.3.2 genKey()

```
void ConfigDialog::genKey (
    QString batch,
    QDialog * dialog )
```

[ConfigDialog::genKey](#) tunnel function to make [MainWindow](#) generate a gpg key pair.

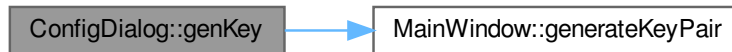
Todo refactor the process to not be entangled so much.

Parameters

<i>batch</i>	
<i>dialog</i>	

Definition at line 455 of file [configdialog.cpp](#).

Here is the call graph for this function:



13.1.3.3 getPasswordConfiguration()

```
PasswordConfiguration ConfigDialog::getPasswordConfiguration ( )
```

Definition at line 827 of file [configdialog.cpp](#).

13.1.3.4 getProfiles()

```
QHash< QString, QHash< QString, QString > > ConfigDialog::getProfiles ( )
```

[ConfigDialog::getProfiles](#) return profile list.

Returns

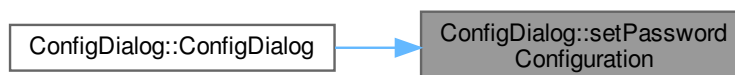
Definition at line 496 of file [configdialog.cpp](#).

13.1.3.5 setPasswordConfiguration()

```
void ConfigDialog::setPasswordConfiguration (
    const PasswordConfiguration & config )
```

Definition at line 818 of file [configdialog.cpp](#).

Here is the caller graph for this function:



13.1.3.6 setPwgenPath()

```
void ConfigDialog::setPwgenPath (
    QString pwgen )
```

[ConfigDialog::setPwgenPath](#) set pwgen executable path. Enable or disable related options in the interface.

Parameters

<i>pwgen</i>	
--------------	--

Definition at line 780 of file [configdialog.cpp](#).

Here is the caller graph for this function:



13.1.3.7 useAutoclear()

```
void ConfigDialog::useAutoclear (
    bool useAutoclear )
```

[ConfigDialog::useAutoclear](#) set the clipboard autoclear use from [MainWindow](#).

Parameters

<i>useAutoclear</i>	
---------------------	--

Definition at line 417 of file [configdialog.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.1.3.8 useAutoclearPanel()

```
void ConfigDialog::useAutoclearPanel (
    bool useAutoclearPanel )
```

[ConfigDialog::useAutoclearPanel](#) set the panel autoclear use from [MainWindow](#).

Parameters

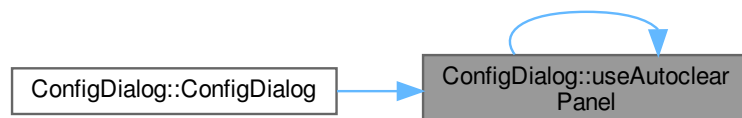
<i>useAutoclearPanel</i>	
--------------------------	--

Definition at line 427 of file [configdialog.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.1.3.9 useGit()

```
void ConfigDialog::useGit (
    bool useGit )
```

[ConfigDialog::useGit](#) set preference for using git.

Parameters

<i>useGit</i>	
---------------	--

Definition at line 729 of file [configdialog.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.1.3.10 useOtp()

```
void ConfigDialog::useOtp (
    bool useOtp )
```

[ConfigDialog::useOtp](#) set preference for using otp plugin.

Parameters

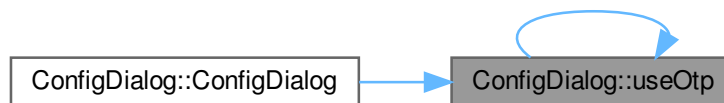
<i>useOtp</i>	
---------------	--

Definition at line 738 of file [configdialog.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.1.3.11 usePwgen()

```
void ConfigDialog::usePwgen (  
    bool usePwgen )
```

[ConfigDialog::usePwgen](#) set preference for using pwgen (can be overruled buy empty pwgenPath). enable or disable related options in the interface via `ConfigDialog::on_checkBoxUsePwgen_clicked`.

Parameters

<i>usePwgen</i>	
-----------------	--

Definition at line 811 of file [configdialog.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.1.3.12 useQrencode()

```
void ConfigDialog::useQrencode (  
    bool useQrencode )
```

[ConfigDialog::useOtp](#) set preference for using otp plugin.

Parameters

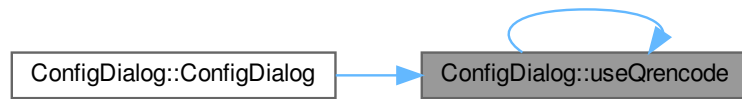
<i>useOtp</i>	
---------------	--

Definition at line 746 of file [configdialog.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.1.3.13 useSelection()

```
void ConfigDialog::useSelection (
    bool useSelection )
```

[ConfigDialog::useSelection](#) set the clipboard type use from [MainWindow](#).

Parameters

<i>useSelection</i>	
---------------------	--

Definition at line [407](#) of file [configdialog.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.1.3.14 useTemplate()

```
void ConfigDialog::useTemplate (
    bool useTemplate )
```

[ConfigDialog::useTemplate](#) set preference for using templates.

Parameters

<i>useTemplate</i>	
--------------------	--

Definition at line 871 of file [configdialog.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.1.3.15 useTrayIcon()

```
void ConfigDialog::useTrayIcon (
    bool useSystray )
```

[ConfigDialog::useTrayIcon](#) set preference for using trayicon. Enable or disable related checkboxes accordingly.

Parameters

<i>useSystray</i>	
-------------------	--

Definition at line 693 of file [configdialog.cpp](#).

Here is the caller graph for this function:



13.1.3.16 wizard()

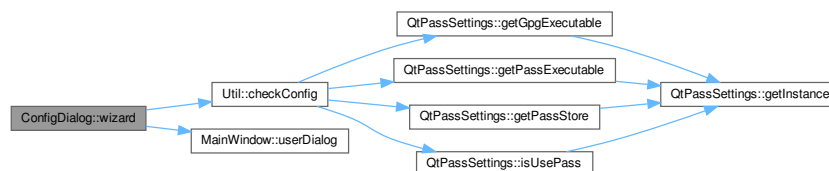
```
void ConfigDialog::wizard ( )
```

[ConfigDialog::wizard](#) first-time use wizard.

Todo make this thing more reliable.

Definition at line 594 of file [configdialog.cpp](#).

Here is the call graph for this function:



The documentation for this class was generated from the following files:

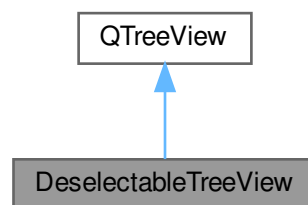
- [src/configdialog.h](#)
- [src/configdialog.cpp](#)

13.2 DeselectableTreeView Class Reference

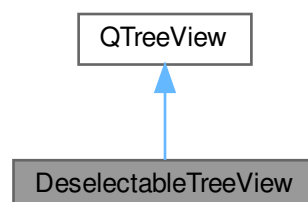
The [DeselectableTreeView](#) class loosely based on <http://stackoverflow.com/questions/2761284/> thanks to Yassir Ennazk.

```
#include <deselectabletreeview.h>
```

Inheritance diagram for DeselectableTreeView:



Collaboration diagram for DeselectableTreeView:



Signals

- void [emptyClicked](#) ()
emptyClicked event

Public Member Functions

- [DeselectableTreeView](#) (QWidget *parent)
DeselectableTreeView standard constructor.
- virtual [~DeselectableTreeView](#) ()
~DeselectableTreeView standard destructor

13.2.1 Detailed Description

The [DeselectableTreeView](#) class loosely based on <http://stackoverflow.com/questions/2761284/> thanks to Yassir Ennazk.

Definition at line 14 of file [deselectabletreeview.h](#).

13.2.2 Constructor & Destructor Documentation

13.2.2.1 DeselectableTreeView()

```
DeselectableTreeView::DeselectableTreeView (
    QWidget * parent ) [inline]
```

[DeselectableTreeView](#) standard constructor.

Parameters

<i>parent</i>	
---------------	--

Definition at line 22 of file [deselectabletreeview.h](#).

13.2.2.2 ~DeselectableTreeView()

```
virtual DeselectableTreeView::~~DeselectableTreeView ( ) [inline], [virtual]
```

~DeselectableTreeView standard destructor

Definition at line 26 of file [deselectabletreeview.h](#).

13.2.3 Member Function Documentation

13.2.3.1 emptyClicked

```
void DeselectableTreeView::emptyClicked ( ) [signal]
```

emptyClicked event

Here is the caller graph for this function:



The documentation for this class was generated from the following file:

- src/[deselectabletreeview.h](#)

13.3 dragAndDropInfo Struct Reference

holds values to share between drag and drop on the passwordstorage view

```
#include <storemodel.h>
```

13.3.1 Detailed Description

holds values to share between drag and drop on the passwordstorage view

The documentation for this struct was generated from the following file:

- src/[storemodel.h](#)

13.4 dragAndDropInfoPasswordStore Struct Reference

```
#include <storemodel.h>
```

Public Attributes

- bool [isDir](#)
- bool [isFile](#)
- QString [path](#)

13.4.1 Detailed Description

Definition at line [45](#) of file [storemodel.h](#).

13.4.2 Member Data Documentation

13.4.2.1 isDir

```
bool dragAndDropInfoPasswordStore::isDir
```

Definition at line 46 of file [storemodel.h](#).

13.4.2.2 isFile

```
bool dragAndDropInfoPasswordStore::isFile
```

Definition at line 47 of file [storemodel.h](#).

13.4.2.3 path

```
QString dragAndDropInfoPasswordStore::path
```

Definition at line 48 of file [storemodel.h](#).

The documentation for this struct was generated from the following file:

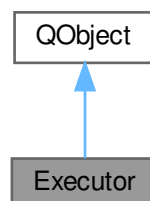
- [src/storemodel.h](#)

13.5 Executor Class Reference

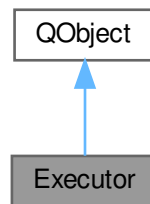
Executes external commands for handling password, git and other data.

```
#include <executor.h>
```

Inheritance diagram for Executor:



Collaboration diagram for Executor:



Signals

- void `finished` (int id, int exitCode, const QString &output, const QString &errout)
finished signal that is emitted when process finishes
- void `starting` ()
starting signal that is emitted when process starts
- void `error` (int id, int exitCode, const QString &output, const QString &errout)
error signal that is emitted when process finishes with an error

Public Member Functions

- `Executor` (QObject *parent=0)
Executor::Executor executes external applications.
- void `execute` (int id, const QString &app, const QStringList &args, bool readStdout, bool readStderr=true)
Executor::execute execute an app.
- void `execute` (int id, const QString &workDir, const QString &app, const QStringList &args, bool readStdout, bool readStderr=true)
Executor::execute executes an app from a workDir.
- void `execute` (int id, const QString &app, const QStringList &args, QString input=QString(), bool readStdout=false, bool readStderr=true)
Executor::execute an app, takes input and presents it as stdin.
- void `execute` (int id, const QString &workDir, const QString &app, const QStringList &args, QString input=QString(), bool readStdout=false, bool readStderr=true)
Executor::execute executes an app from a workDir, takes input and presents it as stdin.
- void `setEnvironment` (const QStringList &env)
Executor::setEnvironment set environment variables for executor processes.
- int `cancelNext` ()
Executor::cancelNext cancels execution of first process in queue if it's not already running.

Static Public Member Functions

- static int `executeBlocking` (QString app, const QStringList &args, QString input=QString(), QString *process_out=Q_NULLPTR, QString *process_err=Q_NULLPTR)
Executor::executeBlocking blocking version of the executor, takes input and presents it as stdin.
- static int `executeBlocking` (QString app, const QStringList &args, QString *process_out, QString *process_err=Q_NULLPTR)
Executor::executeBlocking blocking version of the executor.

13.5.1 Detailed Description

Executes external commands for handling password, git and other data.

Definition at line 12 of file [executor.h](#).

13.5.2 Constructor & Destructor Documentation

13.5.2.1 Executor()

```
Executor::Executor (
    QObject * parent = 0 ) [explicit]
```

[Executor::Executor](#) executes external applications.

Parameters

<i>parent</i>	
---------------	--

Definition at line 19 of file [executor.cpp](#).

13.5.3 Member Function Documentation

13.5.3.1 cancelNext()

```
int Executor::cancelNext ( )
```

[Executor::cancelNext](#) cancels execution of first process in queue if it's not already running.

Returns

id of the cancelled process or -1 on error

Definition at line 233 of file [executor.cpp](#).

Here is the caller graph for this function:



13.5.3.2 error

```
void Executor::error (
    int id,
    int exitCode,
    const QString & output,
    const QString & errout ) [signal]
```

error signal that is emitted when process finishes with an error

Parameters

<i>id</i>	id of the process
<i>exitCode</i>	return code of the process
<i>output</i>	stdout produced by the process
<i>errout</i>	stderr produced by the process

13.5.3.3 execute() [1/4]

```
void Executor::execute (
    int id,
    const QString & app,
    const QStringList & args,
    bool readStdout,
    bool readStderr = true )
```

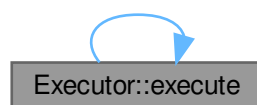
[Executor::execute](#) execute an app.

Parameters

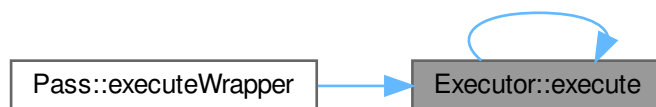
<i>id</i>	
<i>app</i>	
<i>args</i>	
<i>readStdout</i>	
<i>readStderr</i>	

Definition at line 68 of file [executor.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.5.3.4 `execute()` [2/4]

```

void Executor::execute (
    int id,
    const QString & app,
    const QStringList & args,
    QString input = QString(),
    bool readStdout = false,
    bool readStderr = true )
  
```

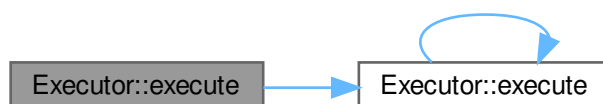
[Executor::execute](#) an app, takes input and presents it as stdin.

Parameters

<i>id</i>	
<i>app</i>	
<i>args</i>	
<i>input</i>	
<i>readStdout</i>	
<i>readStderr</i>	

Definition at line 97 of file [executor.cpp](#).

Here is the call graph for this function:



13.5.3.5 `execute()` [3/4]

```
void Executor::execute (
    int id,
    const QString & workDir,
    const QString & app,
    const QStringList & args,
    bool readStdout,
    bool readStderr = true )
```

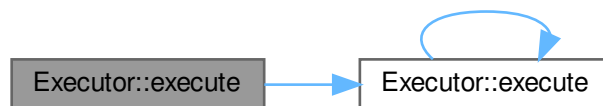
[Executor::execute](#) executes an app from a workDir.

Parameters

<i>id</i>	
<i>workDir</i>	
<i>app</i>	
<i>args</i>	
<i>readStdout</i>	
<i>readStderr</i>	

Definition at line 82 of file [executor.cpp](#).

Here is the call graph for this function:



13.5.3.6 `execute()` [4/4]

```
void Executor::execute (
    int id,
    const QString & workDir,
    const QString & app,
    const QStringList & args,
    QString input = QString(),
    bool readStdout = false,
    bool readStderr = true )
```

[Executor::execute](#) executes an app from a workDir, takes input and presents it as stdin.

Parameters

<i>id</i>	
<i>workDir</i>	
<i>app</i>	
<i>args</i>	
<i>input</i>	
<i>readStdout</i>	
<i>readStderr</i>	

Definition at line 113 of file [executor.cpp](#).

13.5.3.7 executeBlocking() [1/2]

```
int Executor::executeBlocking (
    QString app,
    const QStringList & args,
    QString * process_out,
    QString * process_err = Q_NULLPTR ) [static]
```

[Executor::executeBlocking](#) blocking version of the executor.

Parameters

<i>app</i>	
<i>args</i>	
<i>process_out</i>	
<i>process_err</i>	

Returns

Definition at line 213 of file [executor.cpp](#).

Here is the call graph for this function:



13.5.3.8 executeBlocking() [2/2]

```
int Executor::executeBlocking (
    QString app,
    const QStringList & args,
    QString input = QString(),
    QString * process_out = Q_NULLPTR,
    QString * process_err = Q_NULLPTR ) [static]
```

[Executor::executeBlocking](#) blocking version of the executor, takes input and presents it as stdin.

Parameters

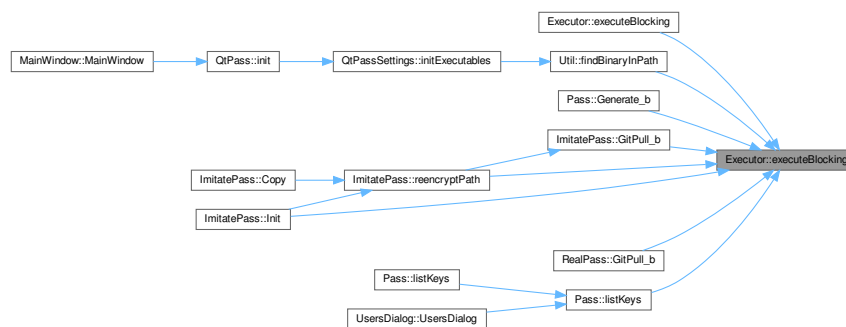
<i>app</i>	
<i>args</i>	
<i>input</i>	
<i>process_out</i>	
<i>process_err</i>	

Returns

TODO(bezet): it might make sense to throw here, a lot of possible errors

Definition at line 171 of file [executor.cpp](#).

Here is the caller graph for this function:



13.5.3.9 finished

```
void Executor::finished (
    int id,
    int exitCode,
    const QString & output,
    const QString & errout ) [signal]
```

finished signal that is emitted when process finishes

Parameters

<i>id</i>	id of the process
<i>exitCode</i>	return code of the process
<i>output</i>	stdout produced by the process
<i>errout</i>	stderr produced by the process

13.5.3.10 `setEnvironment()`

```
void Executor::setEnvironment (
    const QStringList & env )
```

[Executor::setEnvironment](#) set environment variables for executor processes.

Parameters

<i>env</i>	
------------	--

Definition at line 223 of file [executor.cpp](#).

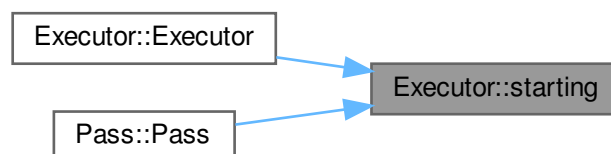
Here is the caller graph for this function:

13.5.3.11 `starting`

```
void Executor::starting ( ) [signal]
```

starting signal that is emitted when process starts

Here is the caller graph for this function:



The documentation for this class was generated from the following files:

- [src/executor.h](#)
- [src/executor.cpp](#)

13.6 FileContent Class Reference

```
#include <filecontent.h>
```

Public Member Functions

- [QString getPassword \(\) const](#)
- [NamedValues getNamedValues \(\) const](#)
- [QString getRemainingData \(\) const](#)
- [QString getRemainingDataForDisplay \(\) const](#)

Static Public Member Functions

- static [FileContent parse](#) (const QString &fileContent, const QStringList &templateFields, bool allFields)
parse parses the given fileContent in a [FileContent](#) object. The password is accessible through [getPassword](#). The named value pairs (name: value) are parsed and depending on the templateFields and allFields parameters accessible through [getNamedValues](#), [getRemainingData](#) or [getRemainingDataForDisplay](#).

13.6.1 Detailed Description

Definition at line 25 of file [filecontent.h](#).

13.6.2 Member Function Documentation

13.6.2.1 getNamedValues()

[NamedValues](#) [FileContent::getNamedValues \(\) const](#)

Returns

the named values in the file in the order of appearance, with template values first.

Definition at line 38 of file [filecontent.cpp](#).

Here is the caller graph for this function:



13.6.2.2 getPassword()

```
QString FileContent::getPassword ( ) const
```

Returns

the password from the parsed file.

Definition at line 36 of file [filecontent.cpp](#).

Here is the caller graph for this function:



13.6.2.3 getRemainingData()

```
QString FileContent::getRemainingData ( ) const
```

Returns

the data that is not the password and not in `getNamedValues`.

Definition at line 40 of file [filecontent.cpp](#).

Here is the caller graph for this function:



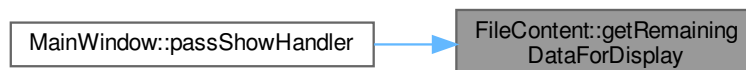
13.6.2.4 getRemainingDataForDisplay()

```
QString FileContent::getRemainingDataForDisplay ( ) const
```

@like `getRemainingData` but without data that should not be displayed (like a TOTP secret).

Definition at line 42 of file [filecontent.cpp](#).

Here is the caller graph for this function:



13.6.2.5 parse()

```
FileContent FileContent::parse (
    const QString & fileContent,
    const QStringList & templateFields,
    bool allFields ) [static]
```

parse parses the given fileContent in a [FileContent](#) object. The password is accessible through getPassword. The named value pairs (name: value) are parsed and depending on the templateFields and allFields parameters accessible through getNamedValues, getRemainingData or getRemainingDataForDisplay.

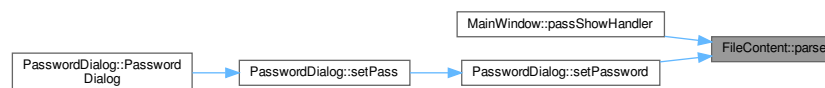
Parameters

<i>fileContent</i>	the file content to parse.
<i>templateFields</i>	the fields in the template. Fields in the template will always be in getNamedValues() at the beginning of the list in the same order.
<i>allFields</i>	whether all fields should be considered as named values. If set to false only templateFields are returned in getNamedValues() .

Returns

Definition at line 7 of file [filecontent.cpp](#).

Here is the caller graph for this function:



The documentation for this class was generated from the following files:

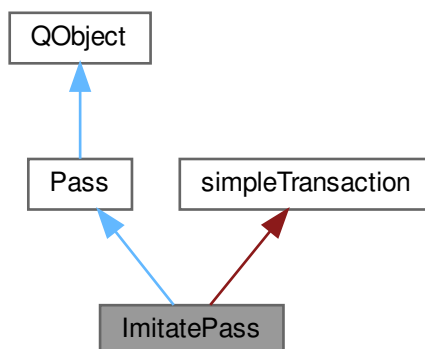
- [src/filecontent.h](#)
- [src/filecontent.cpp](#)

13.7 ImitatePass Class Reference

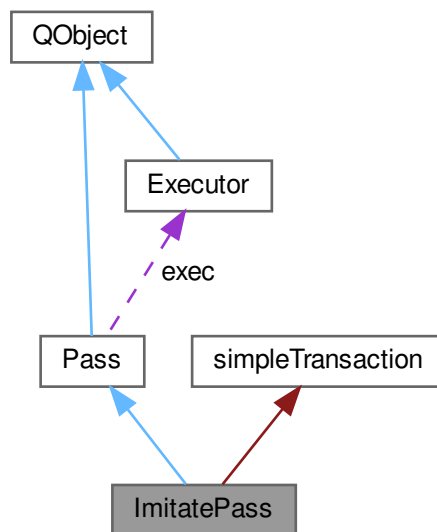
Imitates pass features when pass is not enabled or available.

```
#include <imitatepass.h>
```

Inheritance diagram for ImitatePass:



Collaboration diagram for ImitatePass:



Signals

- void [startReencryptPath](#) ()
- void [endReencryptPath](#) ()

Signals inherited from [Pass](#)

- void [error](#) (QProcess::ProcessError)
- void [startingExecuteWrapper](#) ()
- void [statusMsg](#) (QString, int)
- void [critical](#) (QString, QString)
- void [processErrorExit](#) (int exitCode, const QString &err)
- void [finishedAny](#) (const QString &, const QString &)
- void [finishedGitInit](#) (const QString &, const QString &)
- void [finishedGitPull](#) (const QString &, const QString &)
- void [finishedGitPush](#) (const QString &, const QString &)
- void [finishedShow](#) (const QString &)
- void [finishedOtpGenerate](#) (const QString &)
- void [finishedInsert](#) (const QString &, const QString &)
- void [finishedRemove](#) (const QString &, const QString &)
- void [finishedInit](#) (const QString &, const QString &)
- void [finishedMove](#) (const QString &, const QString &)
- void [finishedCopy](#) (const QString &, const QString &)
- void [finishedGenerate](#) (const QString &, const QString &)
- void [finishedGenerateGPGKeys](#) (const QString &, const QString &)

Public Member Functions

- [ImitatePass](#) ()
[ImitatePass::ImitatePass](#) for situations when pass is not available we imitate the behavior of pass <https://www.passwordstore.org/>.
- virtual [~ImitatePass](#) ()
- virtual void [GitInit](#) () Q_DECL_OVERRIDE
[ImitatePass::GitInit](#) git init wrapper.
- virtual void [GitPull](#) () Q_DECL_OVERRIDE
[ImitatePass::GitPull](#) git init wrapper.
- virtual void [GitPull_b](#) () Q_DECL_OVERRIDE
[ImitatePass::GitPull_b](#) git pull wrapper.
- virtual void [GitPush](#) () Q_DECL_OVERRIDE
[ImitatePass::GitPush](#) git init wrapper.
- virtual void [Show](#) (QString file) Q_DECL_OVERRIDE
[ImitatePass::Show](#) shows content of file.
- virtual void [OtpGenerate](#) (QString file) Q_DECL_OVERRIDE
[ImitatePass::OtpGenerate](#) generates an otp code.
- virtual void [Insert](#) (QString file, QString newValue, bool overwrite=false) Q_DECL_OVERRIDE
[ImitatePass::Insert](#) create new file with encrypted content.
- virtual void [Remove](#) (QString file, bool isDir=false) Q_DECL_OVERRIDE
[ImitatePass::Remove](#) custom implementation of "pass remove".
- virtual void [Init](#) (QString path, const QList< [UserInfo](#) > &users) Q_DECL_OVERRIDE
[ImitatePass::Init](#) initialize pass repository.
- void [reencryptPath](#) (const QString &dir)
[ImitatePass::reencryptPath](#) reencrypt all files under the chosen directory.
- void [Move](#) (const QString src, const QString dest, const bool force=false) Q_DECL_OVERRIDE
- void [Copy](#) (const QString src, const QString dest, const bool force=false) Q_DECL_OVERRIDE

Public Member Functions inherited from [Pass](#)

- [Pass](#) ()
 - [Pass::Pass](#) wrapper for using either pass or the pass imitation.*
- void [init](#) ()
- virtual [~Pass](#) ()
- virtual void [GitInit](#) ()=0
- virtual void [GitPull](#) ()=0
- virtual void [GitPull_b](#) ()=0
- virtual void [GitPush](#) ()=0
- virtual void [Show](#) (QString file)=0
- virtual void [OtpGenerate](#) (QString file)=0
- virtual void [Insert](#) (QString file, QString value, bool force)=0
- virtual void [Remove](#) (QString file, bool isDir)=0
- virtual void [Move](#) (const QString srcDir, const QString dest, const bool force=false)=0
- virtual void [Copy](#) (const QString srcDir, const QString dest, const bool force=false)=0
- virtual void [Init](#) (QString path, const QList< [UserInfo](#) > &users)=0
- virtual QString [Generate_b](#) (unsigned int length, const QString &charset)
 - [Pass::Generate](#) use either pwgen or internal password generator.*
- void [GenerateGPGKeys](#) (QString batch)
 - [Pass::GenerateGPGKeys](#) internal gpg keypair generator . .*
- QList< [UserInfo](#) > [listKeys](#) (QStringList keystings, bool secret=false)
 - [Pass::listKeys](#) list users.*
- QList< [UserInfo](#) > [listKeys](#) (QString keystring="", bool secret=false)
 - [Pass::listKeys](#) list users.*
- void [updateEnv](#) ()
 - [Pass::updateEnv](#) update the execution environment (used when switching profiles)*

Protected Member Functions

- virtual void [finished](#) (int id, int exitCode, const QString &out, const QString &err) Q_DECL_OVERRIDE
 - [ImitatePass::finished](#) this function is overloaded to ensure identical behaviour to [RealPass](#) ie. only `PASS_*` processes are visible inside [Pass::finish](#), so that interface-wise it all looks the same.*
- virtual void [executeWrapper](#) ([PROCESS](#) id, const QString &app, const QStringList &args, QString input, bool readStdout=true, bool readStderr=true) Q_DECL_OVERRIDE
 - [executeWrapper](#) overridden so that every execution is a transaction*

Protected Member Functions inherited from [Pass](#)

- void [executeWrapper](#) ([PROCESS](#) id, const QString &app, const QStringList &args, bool readStdout=true, bool readStderr=true)
- QString [generateRandomPassword](#) (const QString &charset, unsigned int length)
- quint32 [boundedRandom](#) (quint32 bound)
- virtual void [executeWrapper](#) ([PROCESS](#) id, const QString &app, const QStringList &args, QString input, bool readStdout=true, bool readStderr=true)

Additional Inherited Members

Static Public Member Functions inherited from [Pass](#)

- static QString [getGpgIdPath](#) (QString for_file)
[Pass::getGpgIdPath](#) return gpgid file path for some file (folder).
- static QStringList [getRecipientList](#) (QString for_file)
[Pass::getRecipientList](#) return list of gpg-id's to encrypt for.
- static QStringList [getRecipientString](#) (QString for_file, QString separator=" ", int *count=NULL)
[Pass::getRecipientString](#) formatted string for use with GPG.

Protected Types inherited from [Pass](#)

- typedef [Enums::PROCESS](#) PROCESS

Protected Slots inherited from [Pass](#)

- virtual void [finished](#) (int id, int exitCode, const QString &out, const QString &err)
[Pass::processFinished](#) reemits specific signal based on what process has finished.

Protected Attributes inherited from [Pass](#)

- [Executor](#) [exec](#)

13.7.1 Detailed Description

Imitates pass features when pass is not enabled or available.

Definition at line 11 of file [imitatepass.h](#).

13.7.2 Constructor & Destructor Documentation

13.7.2.1 ImitatePass()

```
ImitatePass::ImitatePass ( ) [default]
```

[ImitatePass::ImitatePass](#) for situations when pass is not available we imitate the behavior of pass <https://www.passwordstore.org/>.

13.7.2.2 ~ImitatePass()

```
virtual ImitatePass::~~ImitatePass ( ) [inline], [virtual]
```

Definition at line 49 of file [imitatepass.h](#).

13.7.3 Member Function Documentation

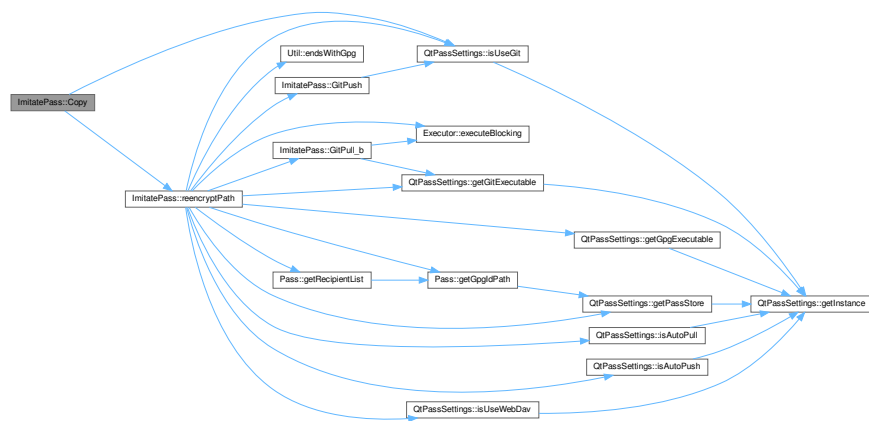
13.7.3.1 Copy()

```
void ImitatePass::Copy (
    const QString src,
    const QString dest,
    const bool force = false ) [virtual]
```

Implements [Pass](#).

Definition at line 524 of file [imitatepass.cpp](#).

Here is the call graph for this function:



13.7.3.2 endReencryptPath

```
void ImitatePass::endReencryptPath ( ) [signal]
```

Here is the caller graph for this function:



13.7.3.3 executeWrapper()

```
void ImitatePass::executeWrapper (
    PROCESS id,
    const QString & app,
    const QStringList & args,
    QString input,
    bool readStdout = true,
    bool readStderr = true ) [protected], [virtual]
```

executeWrapper overridden so that every execution is a transaction

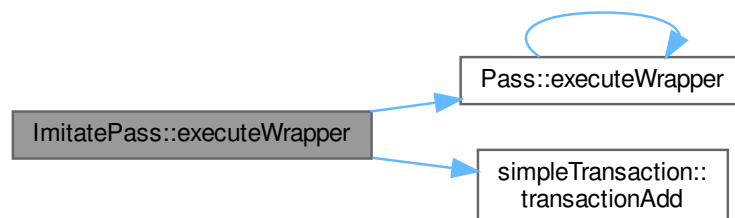
Parameters

<i>id</i>	
<i>app</i>	
<i>args</i>	
<i>input</i>	
<i>readStdout</i>	
<i>readStderr</i>	

Reimplemented from [Pass](#).

Definition at line 623 of file [imitatepass.cpp](#).

Here is the call graph for this function:



13.7.3.4 finished()

```
void ImitatePass::finished (
    int id,
    int exitCode,
    const QString & out,
    const QString & err ) [protected], [virtual]
```

[ImitatePass::finished](#) this function is overloaded to ensure identical behaviour to [RealPass](#) ie. only `PASS_*` processes are visible inside `Pass::finish`, so that interface-wise it all looks the same.

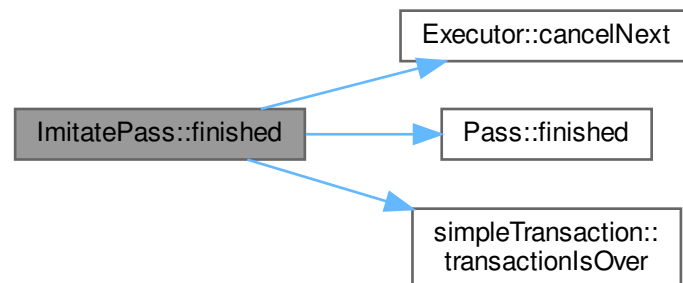
Parameters

<i>id</i>	
<i>exitCode</i>	
<i>out</i>	
<i>err</i>	

Reimplemented from [Pass](#).

Definition at line 585 of file [imitatepass.cpp](#).

Here is the call graph for this function:



13.7.3.5 GitInit()

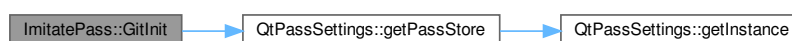
```
void ImitatePass::GitInit ( ) [virtual]
```

[ImitatePass::GitInit](#) git init wrapper.

Implements [Pass](#).

Definition at line 37 of file [imitatepass.cpp](#).

Here is the call graph for this function:



13.7.3.6 GitPull()

```
void ImitatePass::GitPull ( ) [virtual]
```

[ImitatePass::GitPull](#) git init wrapper.

Implements [Pass](#).

Definition at line 44 of file [imitatepass.cpp](#).

13.7.3.7 GitPull_b()

```
void ImitatePass::GitPull_b ( ) [virtual]
```

[ImitatePass::GitPull_b](#) git pull wrapper.

Implements [Pass](#).

Definition at line 49 of file [imitatepass.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.7.3.8 GitPush()

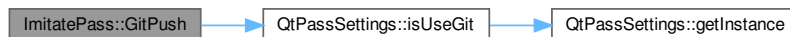
```
void ImitatePass::GitPush ( ) [virtual]
```

[ImitatePass::GitPush](#) git init wrapper.

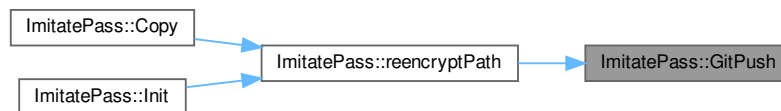
Implements [Pass](#).

Definition at line 56 of file [imitatepass.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.7.3.9 Init()

```
void ImitatePass::Init (
    QString path,
    const QList< UserInfo > & users ) [virtual]
```

[ImitatePass::Init](#) initialize pass repository.

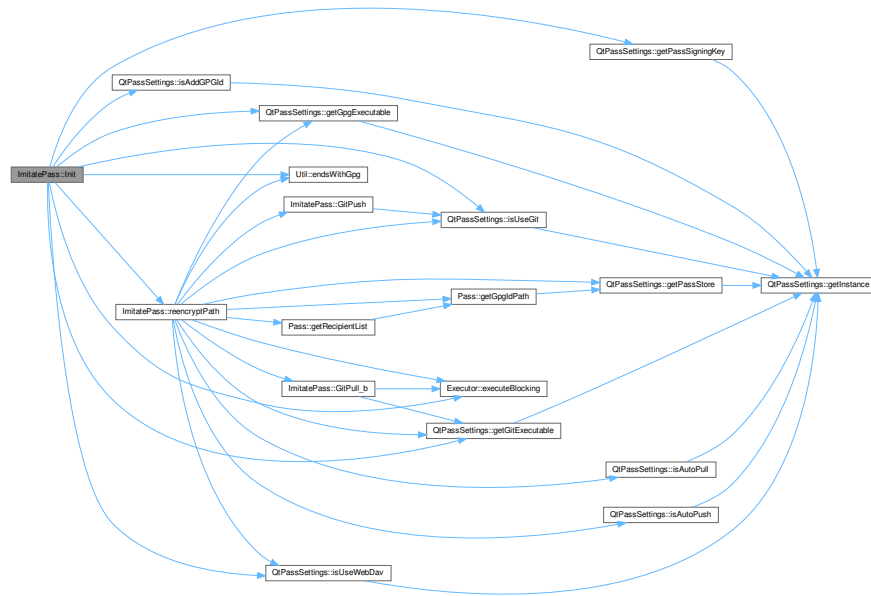
Parameters

<i>path</i>	path in which new password-store will be created
<i>users</i>	list of users who shall be able to decrypt passwords in path

Implements [Pass](#).

Definition at line 171 of file [imitatepass.cpp](#).

Here is the call graph for this function:



13.7.3.10 Insert()

```
void ImitatePass::Insert (
    QString file,
    QString newValue,
    bool overwrite = false ) [virtual]
```

[ImitatePass::Insert](#) create new file with encrypted content.

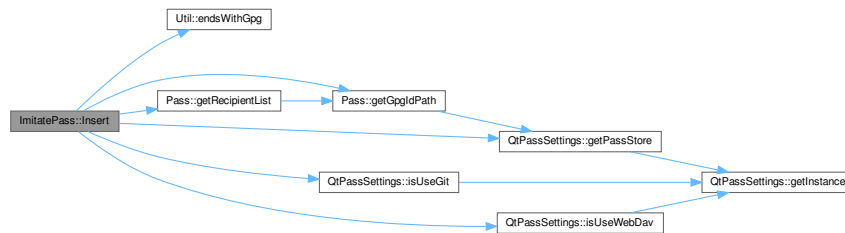
Parameters

<i>file</i>	file to be created
<i>newValue</i>	value to be stored in file
<i>overwrite</i>	whether to overwrite existing file

Implements [Pass](#).

Definition at line 91 of file [imitatepass.cpp](#).

Here is the call graph for this function:



13.7.3.11 Move()

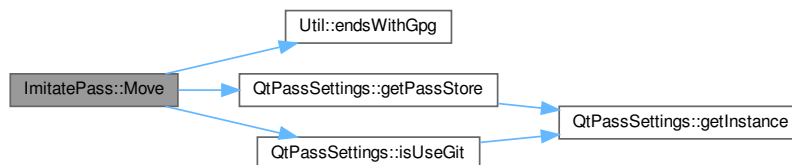
```

void ImitatePass::Move (
    const QString src,
    const QString dest,
    const bool force = false ) [virtual]
  
```

Implements [Pass](#).

Definition at line 449 of file [imitatepass.cpp](#).

Here is the call graph for this function:



13.7.3.12 OtpGenerate()

```

void ImitatePass::OtpGenerate (
    QString file ) [virtual]
  
```

[ImitatePass::OtpGenerate](#) generates an otp code.

Implements [Pass](#).

Definition at line 75 of file [imitatepass.cpp](#).

13.7.3.13 reencryptPath()

```
void ImitatePass::reencryptPath (
    const QString & dir )
```

[ImitatePass::reencryptPath](#) reencrypt all files under the chosen directory.

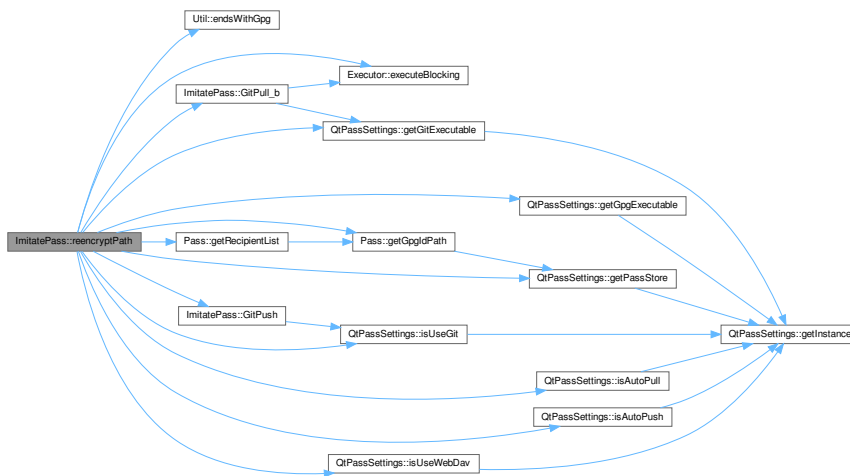
This is stil quite experimental..

Parameters

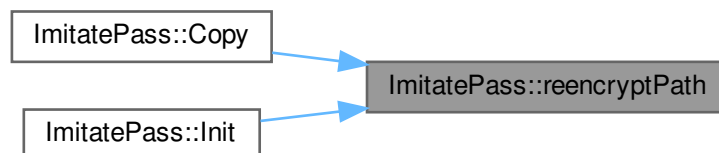
<i>dir</i>	
------------	--

Definition at line 334 of file [imitatepass.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.7.3.14 Remove()

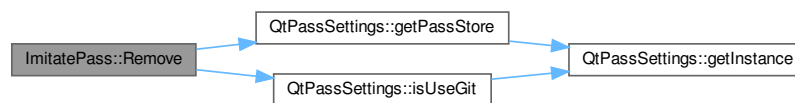
```
void ImitatePass::Remove (
    QString file,
    bool isDir = false ) [virtual]
```

[ImitatePass::Remove](#) custom implementation of "pass remove".

Implements [Pass](#).

Definition at line 145 of file [imitatepass.cpp](#).

Here is the call graph for this function:



13.7.3.15 Show()

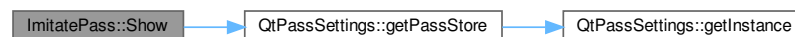
```
void ImitatePass::Show (
    QString file ) [virtual]
```

[ImitatePass::Show](#) shows content of file.

Implements [Pass](#).

Definition at line 65 of file [imitatepass.cpp](#).

Here is the call graph for this function:



13.7.3.16 startReencryptPath

```
void ImitatePass::startReencryptPath ( ) [signal]
```

Here is the caller graph for this function:



The documentation for this class was generated from the following files:

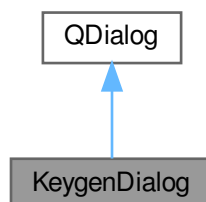
- [src/imitatepass.h](#)
- [src/imitatepass.cpp](#)

13.8 KeygenDialog Class Reference

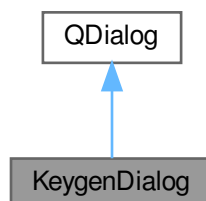
Handles GPG keypair generation.

```
#include <keygendialog.h>
```

Inheritance diagram for KeygenDialog:



Collaboration diagram for KeygenDialog:



Public Member Functions

- [KeygenDialog](#) ([ConfigDialog](#) *parent=0)
[KeygenDialog::KeygenDialog](#) basic constructor.
- [~KeygenDialog](#) ()
[KeygenDialog::~~KeygenDialog](#) even more basic destructor.

Protected Member Functions

- void [closeEvent](#) (QCloseEvent *event)
[KeygenDialog::closeEvent](#) we are done here.

13.8.1 Detailed Description

Handles GPG keypair generation.

Definition at line 16 of file [keygendialog.h](#).

13.8.2 Constructor & Destructor Documentation

13.8.2.1 KeygenDialog()

```
KeygenDialog::KeygenDialog (
    ConfigDialog * parent = 0 ) [explicit]
```

[KeygenDialog::KeygenDialog](#) basic constructor.

Parameters

<i>parent</i>	
---------------	--

Definition at line 16 of file [keygendialog.cpp](#).

13.8.2.2 ~KeygenDialog()

```
KeygenDialog::~~KeygenDialog ( )
```

[KeygenDialog::~~KeygenDialog](#) even more basic destructor.

Definition at line 25 of file [keygendialog.cpp](#).

13.8.3 Member Function Documentation

13.8.3.1 closeEvent()

```
void KeygenDialog::closeEvent (
    QCloseEvent * event ) [protected]
```

[KeygenDialog::closeEvent](#) we are done here.

Parameters

<i>event</i>	
--------------	--

Definition at line 188 of file [keygendialog.cpp](#).

The documentation for this class was generated from the following files:

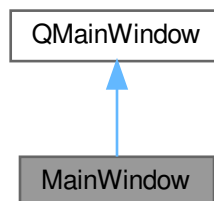
- [src/keygendialog.h](#)
- [src/keygendialog.cpp](#)

13.9 MainWindow Class Reference

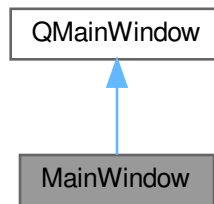
The [MainWindow](#) class does way too much, not only is it a switchboard, configuration handler and more, it's also the process-manager.

```
#include <mainwindow.h>
```

Inheritance diagram for MainWindow:



Collaboration diagram for MainWindow:



Public Slots

- void [deselect](#) ()
MainWindow::deselect clear the selection, password and copy buffer.
- void [messageAvailable](#) (QString message)
MainWindow::messageAvailable we have some text/message/search to do.
- void [critical](#) (QString, QString)
MainWindow::critical critical message popup wrapper.
- void [executeWrapperStarted](#) ()
- void [showStatusMessage](#) (QString msg, int timeout=2000)
Displays message in status bar.
- void [passShowHandler](#) (const QString &)
- void [passOtpHandler](#) (const QString &)
- void [onPush](#) ()
MainWindow::onPush do a git push.
- void [on_treeView_clicked](#) (const QModelIndex &index)
MainWindow::on_treeView_clicked read the selected password file.
- void [startReencryptPath](#) ()
MainWindow::startReencryptPath disable ui elements and treeview.
- void [endReencryptPath](#) ()
MainWindow::endReencryptPath re-enable ui elements.

Signals

- void [passShowHandlerFinished](#) (QString output)
- void [passGitInitNeeded](#) ()
- void [generateGPGKeyPair](#) (QString batch)

Public Member Functions

- [MainWindow](#) (const QString &searchText=QString(), QWidget *parent=nullptr)
MainWindow::MainWindow handles all of the main functionality and also the main window.
- [~MainWindow](#) ()
- void [restoreWindow](#) ()
- void [generateKeyPair](#) (QString, QDialog *)
MainWindow::generateKeyPair internal gpg keypair generator . .
- void [userDialog](#) (QString="")
MainWindow::userDialog see MainWindow::onUsers()
- void [config](#) ()
MainWindow::config pops up the configuration screen and handles all inter-window communication.
- void [setUiElementsEnabled](#) (bool state)
MainWindow::setUiElementsEnabled enable or disable the relevant UI elements.
- void [flashText](#) (const QString &text, const bool isError, const bool isHtml=false)
- const QModelIndex [getCurrentTreeViewIndex](#) ()
- QDialog * [getKeygenDialog](#) ()
- void [cleanKeygenDialog](#) ()

Protected Member Functions

- void [closeEvent](#) (QCloseEvent *event)
MainWindow::closeEvent hide or quit.
- void [keyPressEvent](#) (QKeyEvent *event)
MainWindow::keyPressEvent did anyone press return, enter or escape?
- void [changeEvent](#) (QEvent *event)
MainWindow::changeEvent sets focus to the search box.
- bool [eventFilter](#) (QObject *obj, QEvent *event)
MainWindow::eventFilter filter out some events and focus the treeview.

13.9.1 Detailed Description

The [MainWindow](#) class does way too much, not only is it a switchboard, configuration handler and more, it's also the process-manager.

This class could really do with an overhaul.

Definition at line 37 of file [mainwindow.h](#).

13.9.2 Constructor & Destructor Documentation

13.9.2.1 MainWindow()

```
MainWindow::MainWindow (
    const QString & searchText = QString(),
    QWidget * parent = nullptr ) [explicit]
```

[MainWindow::MainWindow](#) handles all of the main functionality and also the main window.

13.9.3.1 `changeEvent()`

```
void MainWindow::changeEvent (
    QEvent * event ) [protected]
```

[MainWindow::changeEvent](#) sets focus to the search box.

Parameters

<i>event</i>	
--------------	--

Definition at line 145 of file [mainwindow.cpp](#).

13.9.3.2 `cleanKeygenDialog()`

```
void MainWindow::cleanKeygenDialog ( )
```

Definition at line 205 of file [mainwindow.cpp](#).

13.9.3.3 `closeEvent()`

```
void MainWindow::closeEvent (
    QCloseEvent * event ) [protected]
```

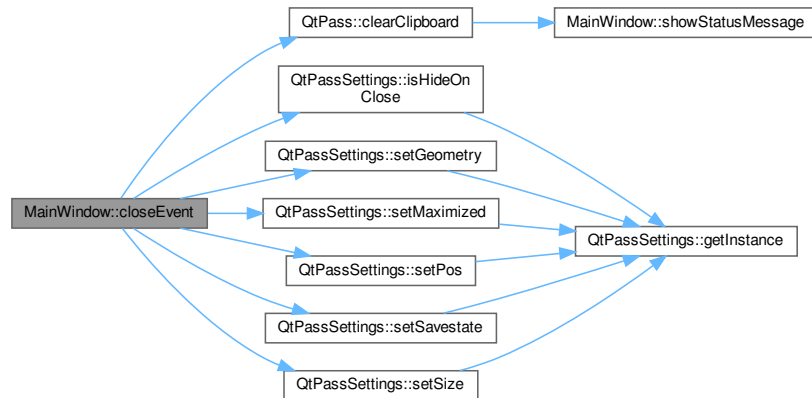
[MainWindow::closeEvent](#) hide or quit.

Parameters

<i>event</i>	
--------------	--

Definition at line 846 of file [mainwindow.cpp](#).

Here is the call graph for this function:



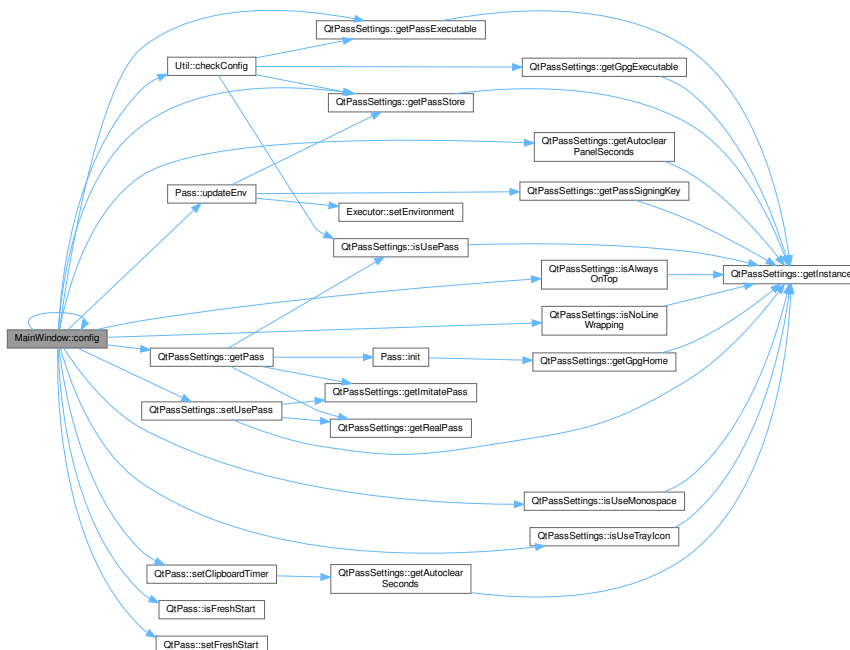
13.9.3.4 config()

```
void MainWindow::config ( )
```

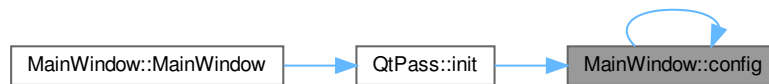
`MainWindow::config` pops up the configuration screen and handles all inter-window communication.

Definition at line 230 of file `mainwindow.cpp`.

Here is the call graph for this function:



Here is the caller graph for this function:



13.9.3.5 critical

```
void MainWindow::critical (
    QString title,
    QString msg ) [slot]
```

[MainWindow::critical](#) critical message popup wrapper.

Parameters

<i>title</i>	
<i>msg</i>	

Definition at line 1228 of file [mainwindow.cpp](#).

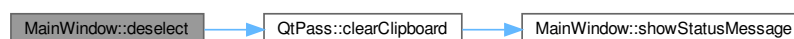
13.9.3.6 deselect

```
void MainWindow::deselect ( ) [slot]
```

[MainWindow::deselect](#) clear the selection, password and copy buffer.

Definition at line 366 of file [mainwindow.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



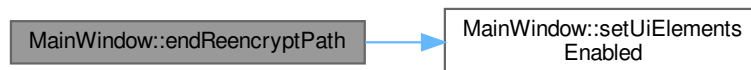
13.9.3.7 endReencryptPath

```
void MainWindow::endReencryptPath ( ) [slot]
```

[MainWindow::endReencryptPath](#) re-enable ui elements.

Definition at line 1195 of file [mainwindow.cpp](#).

Here is the call graph for this function:



13.9.3.8 eventFilter()

```
bool MainWindow::eventFilter (
    QObject * obj,
    QEvent * event ) [protected]
```

[MainWindow::eventFilter](#) filter out some events and focus the treeview.

Parameters

<i>obj</i>	
<i>event</i>	

Returns

Definition at line 871 of file [mainwindow.cpp](#).

13.9.3.9 executeWrapperStarted

```
void MainWindow::executeWrapperStarted ( ) [slot]
```

Definition at line 376 of file [mainwindow.cpp](#).

Here is the call graph for this function:



13.9.3.10 flashText()

```
void MainWindow::flashText (
    const QString & text,
    const bool isError,
    const bool isHtml = false )
```

Definition at line 210 of file [mainwindow.cpp](#).

13.9.3.11 generateGPGKeyPair

```
void MainWindow::generateGPGKeyPair (
    QString batch ) [signal]
```

Here is the caller graph for this function:



13.9.3.12 generateKeyPair()

```
void MainWindow::generateKeyPair (
    QString batch,
    QDialog * keygenWindow )
```

[MainWindow::generateKeyPair](#) internal gpg keypair generator . .

Parameters

<i>batch</i>	
<i>keygenWindow</i>	

Definition at line 753 of file [mainwindow.cpp](#).

Here is the caller graph for this function:



13.9.3.13 `getCurrentTreeViewIndex()`

```
const QModelIndex MainWindow::getCurrentTreeViewIndex ( )
```

Definition at line 201 of file [mainwindow.cpp](#).

13.9.3.14 `getKeygenDialog()`

```
QDialog * MainWindow::getKeygenDialog ( ) [inline]
```

Definition at line 56 of file [mainwindow.h](#).

13.9.3.15 `keyPressEvent()`

```
void MainWindow::keyPressEvent (
    QKeyEvent * event ) [protected]
```

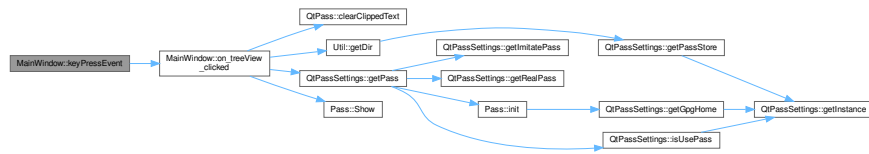
[MainWindow::keyPressEvent](#) did anyone press return, enter or escape?

Parameters

<i>event</i>	
--------------	--

Definition at line 885 of file [mainwindow.cpp](#).

Here is the call graph for this function:



13.9.3.16 messageAvailable

```
void MainWindow::messageAvailable (
    QString message ) [slot]
```

[MainWindow::messageAvailable](#) we have some text/message/search to do.

Parameters

<i>message</i>	
----------------	--

Definition at line 736 of file [mainwindow.cpp](#).

Here is the caller graph for this function:



13.9.3.17 on_treeView_clicked

```
void MainWindow::on_treeView_clicked (
    const QModelIndex & index ) [slot]
```

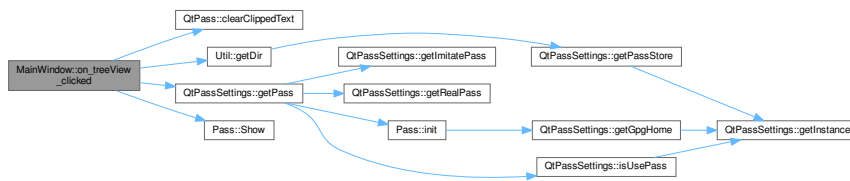
[MainWindow::on_treeView_clicked](#) read the selected password file.

Parameters

<i>index</i>	
--------------	--

Definition at line 332 of file [mainwindow.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



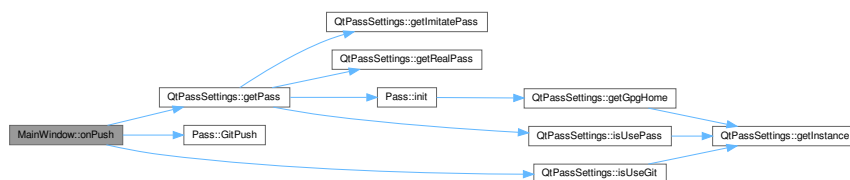
13.9.3.18 onPush

```
void MainWindow::onPush ( ) [slot]
```

[MainWindow::onPush](#) do a git push.

Definition at line 302 of file [mainwindow.cpp](#).

Here is the call graph for this function:



13.9.3.19 passGitInitNeeded

```
void MainWindow::passGitInitNeeded ( ) [signal]
```

Here is the caller graph for this function:

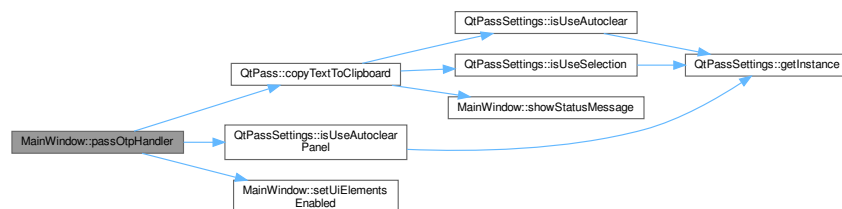


13.9.3.20 passOtpHandler

```
void MainWindow::passOtpHandler (
    const QString & p_output ) [slot]
```

Definition at line 429 of file [mainwindow.cpp](#).

Here is the call graph for this function:

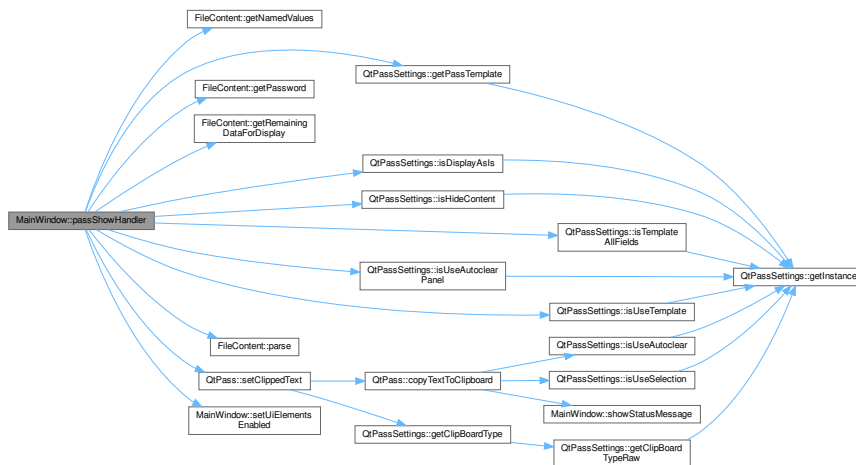


13.9.3.21 passShowHandler

```
void MainWindow::passShowHandler (
    const QString & p_output ) [slot]
```

Definition at line 383 of file [mainwindow.cpp](#).

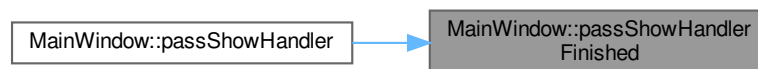
Here is the call graph for this function:



13.9.3.22 passShowHandlerFinished

```
void MainWindow::passShowHandlerFinished (
    QString output ) [signal]
```

Here is the caller graph for this function:

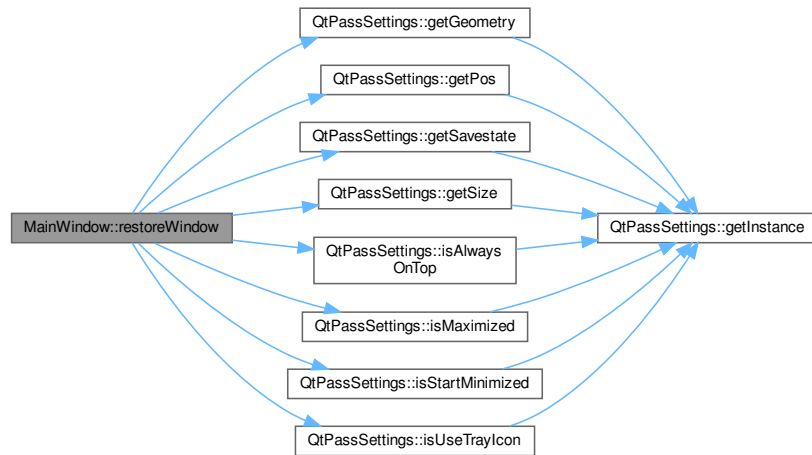


13.9.3.23 restoreWindow()

```
void MainWindow::restoreWindow ( )
```

Definition at line 478 of file [mainwindow.cpp](#).

Here is the call graph for this function:



13.9.3.24 setUiElementsEnabled()

```
void MainWindow::setUiElementsEnabled (
    bool state )
```

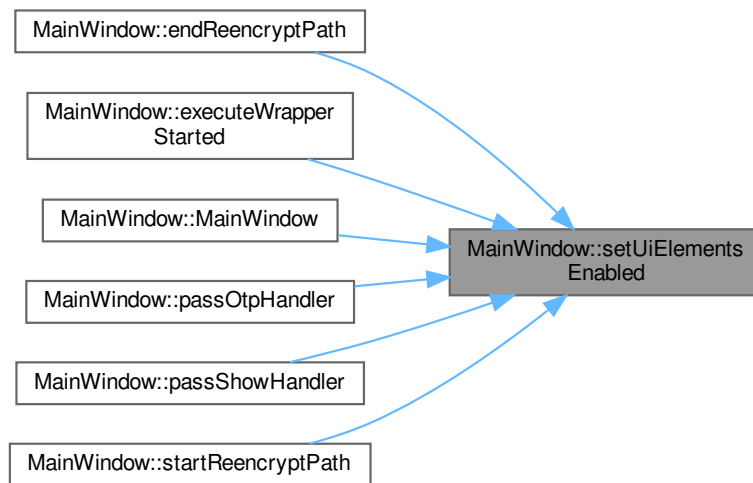
[MainWindow::setUiElementsEnabled](#) enable or disable the relevant UI elements.

Parameters

<i>state</i>	
--------------	--

Definition at line 462 of file [mainwindow.cpp](#).

Here is the caller graph for this function:



13.9.3.25 showStatusMessage

```
void MainWindow::showStatusMessage (
    QString msg,
    int timeout = 2000 ) [slot]
```

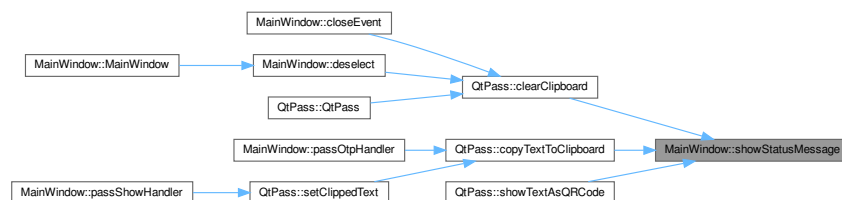
Displays message in status bar.

Parameters

<i>msg</i>	text to be displayed
<i>timeout</i>	time for which msg shall be visible

Definition at line 1180 of file [mainwindow.cpp](#).

Here is the caller graph for this function:



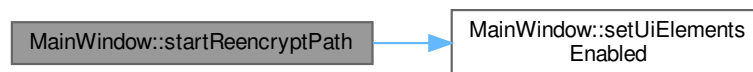
13.9.3.26 startReencryptPath

```
void MainWindow::startReencryptPath ( ) [slot]
```

[MainWindow::startReencryptPath](#) disable ui elements and treeview.

Definition at line 1187 of file [mainwindow.cpp](#).

Here is the call graph for this function:



13.9.3.27 userDialog()

```
void MainWindow::userDialog (
    QString dir = "" )
```

[MainWindow::userDialog](#) see [MainWindow::onUsers\(\)](#)

Parameters

<i>dir</i>	folder to edit users for.
------------	---------------------------

Definition at line 709 of file [mainwindow.cpp](#).

Here is the caller graph for this function:



The documentation for this class was generated from the following files:

- [src/mainwindow.h](#)
- [src/mainwindow.cpp](#)

13.10 NamedValue Struct Reference

```
#include <filecontent.h>
```

Public Attributes

- QString [name](#)
- QString [value](#)

13.10.1 Detailed Description

Definition at line 8 of file [filecontent.h](#).

13.10.2 Member Data Documentation

13.10.2.1 name

```
QString NamedValue::name
```

Definition at line 9 of file [filecontent.h](#).

13.10.2.2 value

```
QString NamedValue::value
```

Definition at line 10 of file [filecontent.h](#).

The documentation for this struct was generated from the following file:

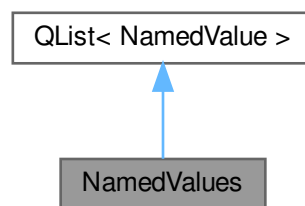
- [src/filecontent.h](#)

13.11 NamedValues Class Reference

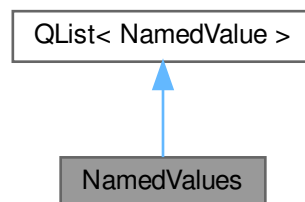
The [NamedValues](#) class is mostly a list of [NamedValue](#) but also has a method to take a specific [NamedValue](#) pair out of the list.

```
#include <filecontent.h>
```

Inheritance diagram for NamedValues:



Collaboration diagram for NamedValues:



Public Member Functions

- [NamedValues](#) ()
- [NamedValues](#) (std::initializer_list< [NamedValue](#) > values)
- QString [takeValue](#) (const QString &name)

13.11.1 Detailed Description

The [NamedValues](#) class is mostly a list of [NamedValue](#) but also has a method to take a specific [NamedValue](#) pair out of the list.

Definition at line 17 of file [filecontent.h](#).

13.11.2 Constructor & Destructor Documentation

13.11.2.1 NamedValues() [1/2]

```
NamedValues::NamedValues ( )
```

Definition at line 54 of file [filecontent.cpp](#).

13.11.2.2 NamedValues() [2/2]

```
NamedValues::NamedValues (
    std::initializer_list< NamedValue > values )
```

Definition at line 56 of file [filecontent.cpp](#).

13.11.3 Member Function Documentation

13.11.3.1 takeValue()

```
QString NamedValues::takeValue (
    const QString & name )
```

Definition at line 59 of file [filecontent.cpp](#).

Here is the caller graph for this function:



The documentation for this class was generated from the following files:

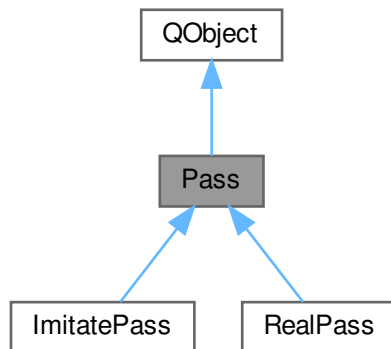
- [src/filecontent.h](#)
- [src/filecontent.cpp](#)

13.12 Pass Class Reference

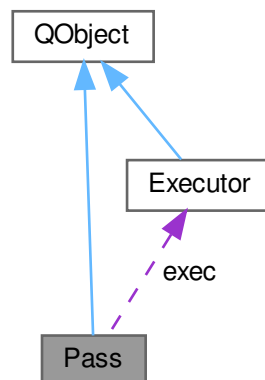
Acts as an abstraction for pass or pass imitation.

```
#include <pass.h>
```

Inheritance diagram for Pass:



Collaboration diagram for Pass:



Signals

- void `error` (`QProcess::ProcessError`)
- void `startingExecuteWrapper` ()
- void `statusMsg` (`QString`, `int`)

- void [critical](#) (QString, QString)
- void [processErrorExit](#) (int exitCode, const QString &err)
- void [finishedAny](#) (const QString &, const QString &)
- void [finishedGitInit](#) (const QString &, const QString &)
- void [finishedGitPull](#) (const QString &, const QString &)
- void [finishedGitPush](#) (const QString &, const QString &)
- void [finishedShow](#) (const QString &)
- void [finishedOtpGenerate](#) (const QString &)
- void [finishedInsert](#) (const QString &, const QString &)
- void [finishedRemove](#) (const QString &, const QString &)
- void [finishedInit](#) (const QString &, const QString &)
- void [finishedMove](#) (const QString &, const QString &)
- void [finishedCopy](#) (const QString &, const QString &)
- void [finishedGenerate](#) (const QString &, const QString &)
- void [finishedGenerateGPGKeys](#) (const QString &, const QString &)

Public Member Functions

- [Pass](#) ()
Pass::Pass wrapper for using either pass or the pass imitation.
- void [init](#) ()
- virtual [~Pass](#) ()
- virtual void [GitInit](#) ()=0
- virtual void [GitPull](#) ()=0
- virtual void [GitPull_b](#) ()=0
- virtual void [GitPush](#) ()=0
- virtual void [Show](#) (QString file)=0
- virtual void [OtpGenerate](#) (QString file)=0
- virtual void [Insert](#) (QString file, QString value, bool force)=0
- virtual void [Remove](#) (QString file, bool isDir)=0
- virtual void [Move](#) (const QString srcDir, const QString dest, const bool force=false)=0
- virtual void [Copy](#) (const QString srcDir, const QString dest, const bool force=false)=0
- virtual void [Init](#) (QString path, const QList< [UserInfo](#) > &users)=0
- virtual QString [Generate_b](#) (unsigned int length, const QString &charset)
Pass::Generate use either pwgen or internal password generator.
- void [GenerateGPGKeys](#) (QString batch)
Pass::GenerateGPGKeys internal gpg keypair generator . .
- QList< [UserInfo](#) > [listKeys](#) (QStringList keystings, bool secret=false)
Pass::listKeys list users.
- QList< [UserInfo](#) > [listKeys](#) (QString keystring="", bool secret=false)
Pass::listKeys list users.
- void [updateEnv](#) ()
Pass::updateEnv update the execution environment (used when switching profiles)

Static Public Member Functions

- static QString [getGpgIdPath](#) (QString for_file)
Pass::getGpgIdPath return gpgid file path for some file (folder).
- static QStringList [getRecipientList](#) (QString for_file)
Pass::getRecipientList return list of gpg-id's to encrypt for.
- static QStringList [getRecipientString](#) (QString for_file, QString separator=" ", int *count=NULL)
Pass::getRecipientString formatted string for use with GPG.

Protected Types

- typedef [Enums::PROCESS](#) [PROCESS](#)

Protected Slots

- virtual void [finished](#) (int id, int exitCode, const QString &out, const QString &err)
Pass::processFinished reemits specific signal based on what process has finished.

Protected Member Functions

- void [executeWrapper](#) ([PROCESS](#) id, const QString &app, const QStringList &args, bool readStdout=true, bool readStderr=true)
- QString [generateRandomPassword](#) (const QString &charset, unsigned int length)
- quint32 [boundedRandom](#) (quint32 bound)
- virtual void [executeWrapper](#) ([PROCESS](#) id, const QString &app, const QStringList &args, QString input, bool readStdout=true, bool readStderr=true)

Protected Attributes

- [Executor](#) [exec](#)

13.12.1 Detailed Description

Acts as an abstraction for pass or pass imitation.

Definition at line 18 of file [pass.h](#).

13.12.2 Member Typedef Documentation

13.12.2.1 PROCESS

```
typedef Enums::PROCESS Pass::PROCESS [protected]
```

Definition at line 27 of file [pass.h](#).

13.12.3 Constructor & Destructor Documentation

13.12.3.1 Pass()

```
Pass::Pass ( )
```

[Pass::Pass](#) wrapper for using either pass or the pass imitation.

Definition at line 17 of file [pass.cpp](#).

Here is the call graph for this function:



13.12.3.2 ~Pass()

```
virtual Pass::~~Pass ( ) [inline], [virtual]
```

Definition at line 33 of file [pass.h](#).

13.12.4 Member Function Documentation

13.12.4.1 boundedRandom()

```
quint32 Pass::boundedRandom (
    quint32 bound ) [protected]
```

Definition at line 349 of file [pass.cpp](#).

Here is the caller graph for this function:

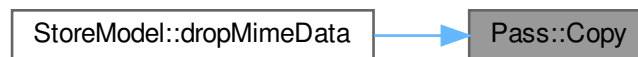


13.12.4.2 Copy()

```
virtual void Pass::Copy (
    const QString srcDir,
    const QString dest,
    const bool force = false ) [pure virtual]
```

Implemented in [ImitatePass](#), and [RealPass](#).

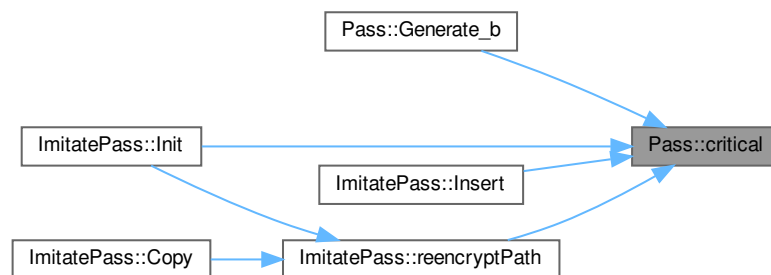
Here is the caller graph for this function:



13.12.4.3 critical

```
void Pass::critical (
    QString ,
    QString ) [signal]
```

Here is the caller graph for this function:



13.12.4.4 error

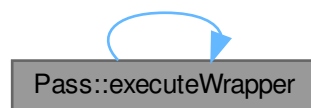
```
void Pass::error (
    QProcess::ProcessError ) [signal]
```

13.12.4.5 executeWrapper() [1/2]

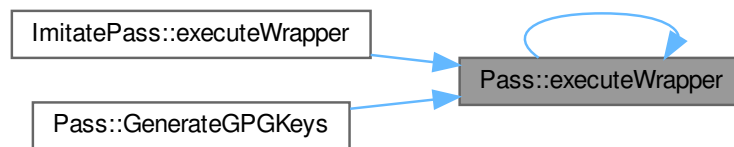
```
void Pass::executeWrapper (
    PROCESS id,
    const QString & app,
    const QStringList & args,
    bool readStdout = true,
    bool readStderr = true ) [protected]
```

Definition at line 31 of file [pass.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



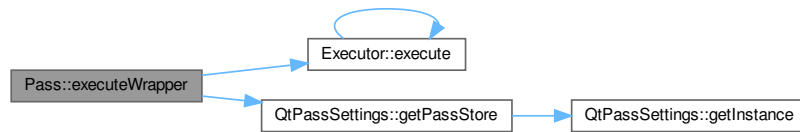
13.12.4.6 executeWrapper() [2/2]

```
void Pass::executeWrapper (
    PROCESS id,
    const QString & app,
    const QStringList & args,
    QString input,
    bool readStdout = true,
    bool readStderr = true ) [protected], [virtual]
```

Reimplemented in [ImitatePass](#).

Definition at line 37 of file [pass.cpp](#).

Here is the call graph for this function:



13.12.4.7 finished

```

void Pass::finished (
    int id,
    int exitCode,
    const QString & out,
    const QString & err ) [protected], [virtual], [slot]
  
```

`Pass::processFinished` reemits specific signal based on what process has finished.

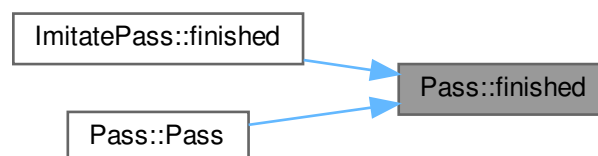
Parameters

<i>id</i>	id of Pass process that was scheduled and finished
<i>exitCode</i>	return code of a process
<i>out</i>	output generated by process(if capturing was requested, empty otherwise)
<i>err</i>	error output generated by process(if capturing was requested, or error occurred)

Reimplemented in [ImitatePass](#).

Definition at line 195 of file [pass.cpp](#).

Here is the caller graph for this function:



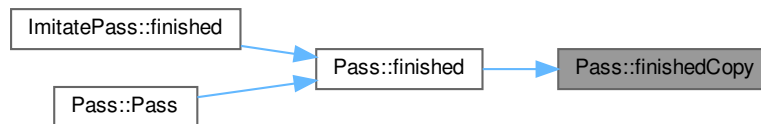
13.12.4.8 finishedAny

```
void Pass::finishedAny (
    const QString & ,
    const QString & ) [signal]
```

13.12.4.9 finishedCopy

```
void Pass::finishedCopy (
    const QString & ,
    const QString & ) [signal]
```

Here is the caller graph for this function:



13.12.4.10 finishedGenerate

```
void Pass::finishedGenerate (
    const QString & ,
    const QString & ) [signal]
```

13.12.4.11 finishedGenerateGPGKeys

```
void Pass::finishedGenerateGPGKeys (
    const QString & ,
    const QString & ) [signal]
```

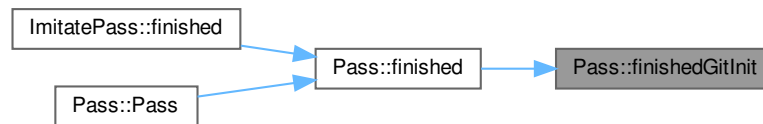
Here is the caller graph for this function:



13.12.4.12 finishedGitInit

```
void Pass::finishedGitInit (
    const QString & ,
    const QString & ) [signal]
```

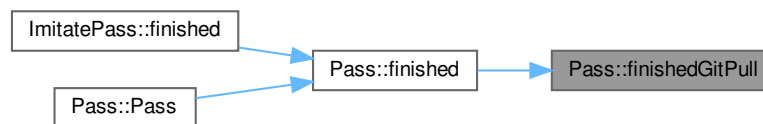
Here is the caller graph for this function:



13.12.4.13 finishedGitPull

```
void Pass::finishedGitPull (
    const QString & ,
    const QString & ) [signal]
```

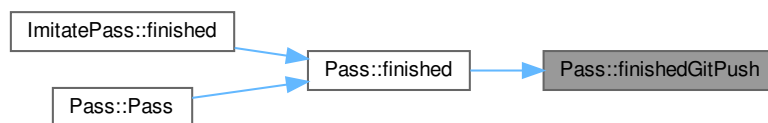
Here is the caller graph for this function:



13.12.4.14 finishedGitPush

```
void Pass::finishedGitPush (
    const QString & ,
    const QString & ) [signal]
```

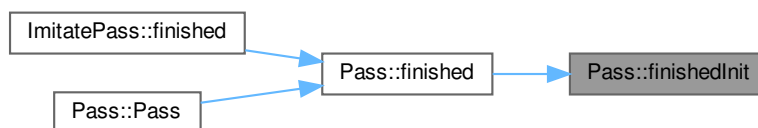

Here is the caller graph for this function:



13.12.4.15 finishedInit

```
void Pass::finishedInit (
    const QString & ,
    const QString & ) [signal]
```

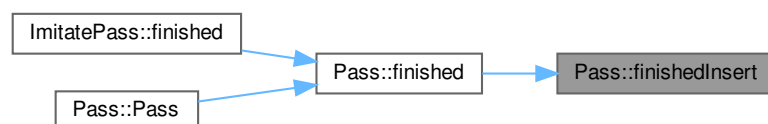
Here is the caller graph for this function:



13.12.4.16 finishedInsert

```
void Pass::finishedInsert (
    const QString & ,
    const QString & ) [signal]
```

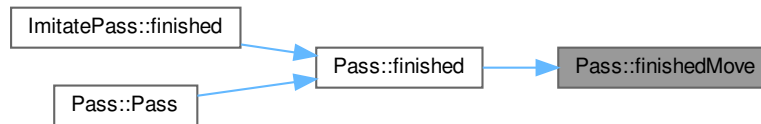
Here is the caller graph for this function:



13.12.4.17 finishedMove

```
void Pass::finishedMove (
    const QString & ,
    const QString & ) [signal]
```

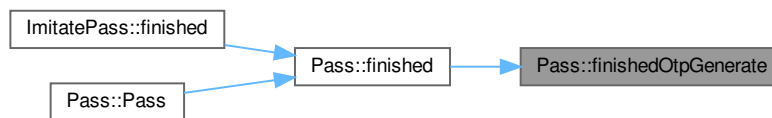
Here is the caller graph for this function:



13.12.4.18 finishedOtpGenerate

```
void Pass::finishedOtpGenerate (
    const QString & ) [signal]
```

Here is the caller graph for this function:



13.12.4.19 finishedRemove

```
void Pass::finishedRemove (
    const QString & ,
    const QString & ) [signal]
```

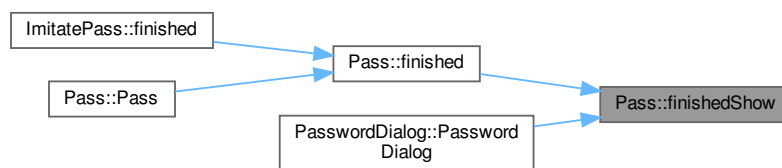
Here is the caller graph for this function:



13.12.4.20 finishedShow

```
void Pass::finishedShow (
    const QString & ) [signal]
```

Here is the caller graph for this function:



13.12.4.21 Generate_b()

```
QString Pass::Generate_b (
    unsigned int length,
    const QString & charset ) [virtual]
```

`Pass::Generate` use either `pwgen` or internal password generator.

Parameters

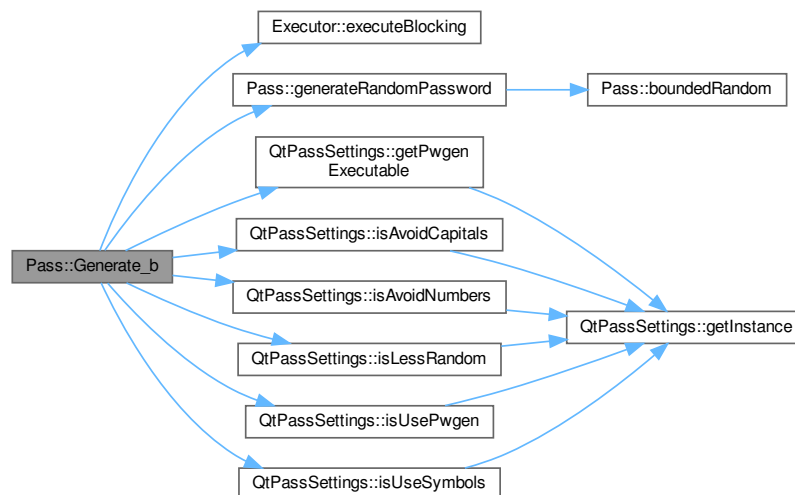
<i>length</i>	of the desired password
<i>charset</i>	to use for generation

Returns

the password

Definition at line 71 of file [pass.cpp](#).

Here is the call graph for this function:



13.12.4.22 GenerateGPGKeys()

```
void Pass::GenerateGPGKeys (
    QString batch )
```

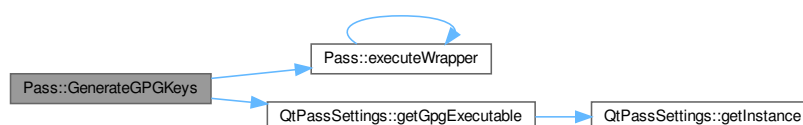
[Pass::GenerateGPGKeys](#) internal gpg keypair generator . .

Parameters

<i>batch</i>	GnuPG style configuration string
--------------	----------------------------------

Definition at line 116 of file [pass.cpp](#).

Here is the call graph for this function:



13.12.4.23 generateRandomPassword()

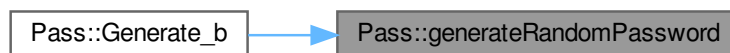
```
QString Pass::generateRandomPassword (
    const QString & charset,
    unsigned int length ) [protected]
```

Definition at line 364 of file [pass.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.12.4.24 getGpgIdPath()

```
QString Pass::getGpgIdPath (
    QString for_file ) [static]
```

[Pass::getGpgIdPath](#) return gpgid file path for some file (folder).

Parameters

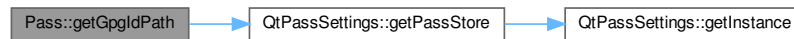
<i>for_file</i>	which file (folder) would you like the gpgid file path for.
-----------------	---

Returns

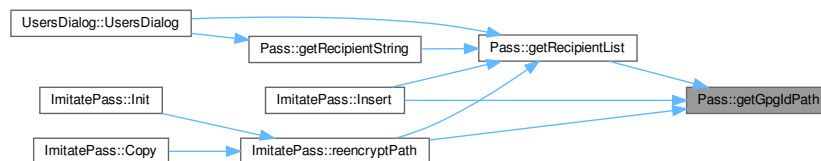
path to the gpgid file.

Definition at line 290 of file [pass.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.12.4.25 getRecipientList()

```

QStringList Pass::getRecipientList (
    QString for_file ) [static]
  
```

[Pass::getRecipientList](#) return list of gpg-id's to encrypt for.

Parameters

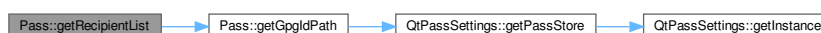
<i>for_file</i>	which file (folder) would you like recepients for
-----------------	---

Returns

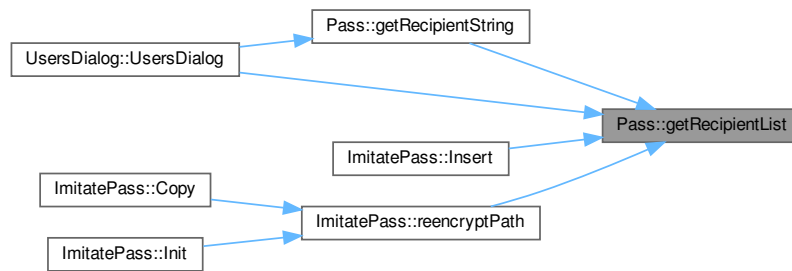
recepients gpg-id contents

Definition at line 318 of file [pass.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.12.4.26 getRecipientString()

```

QStringList Pass::getRecipientString (
    QString for_file,
    QString separator = " ",
    int * count = NULL ) [static]

```

`Pass::getRecipientString` formatted string for use with GPG.

Parameters

<i>for_file</i>	which file (folder) would you like recipients for
<i>separator</i>	formatting separator eg: " -r "
<i>count</i>	

Returns

recipient string

Definition at line 339 of file `pass.cpp`.

Here is the call graph for this function:



Here is the caller graph for this function:



13.12.4.27 GitInit()

```
virtual void Pass::GitInit ( ) [pure virtual]
```

Implemented in [ImitatePass](#), and [RealPass](#).

13.12.4.28 GitPull()

```
virtual void Pass::GitPull ( ) [pure virtual]
```

Implemented in [ImitatePass](#), and [RealPass](#).

13.12.4.29 GitPull_b()

```
virtual void Pass::GitPull_b ( ) [pure virtual]
```

Implemented in [ImitatePass](#), and [RealPass](#).

13.12.4.30 GitPush()

```
virtual void Pass::GitPush ( ) [pure virtual]
```

Implemented in [ImitatePass](#), and [RealPass](#).

Here is the caller graph for this function:

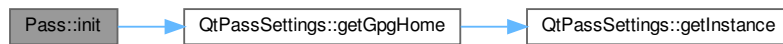


13.12.4.31 init()

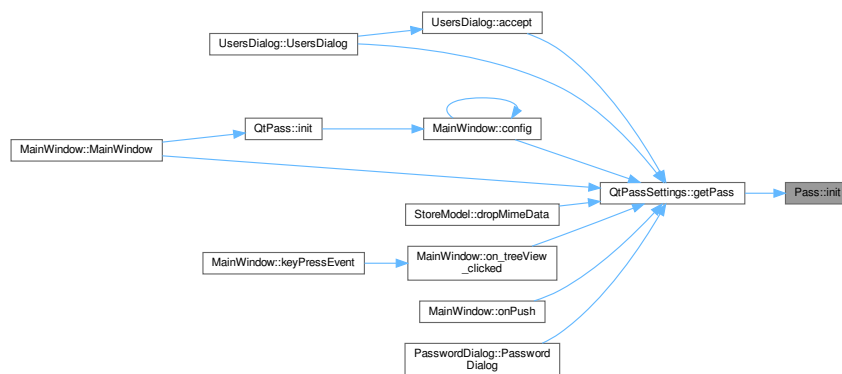
```
void Pass::init ( )
```

Definition at line 47 of file [pass.cpp](#).

Here is the call graph for this function:



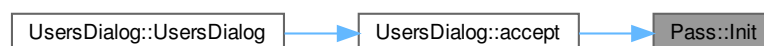
Here is the caller graph for this function:

**13.12.4.32 Init()**

```
virtual void Pass::Init (
    QString path,
    const QList< UserInfo > & users ) [pure virtual]
```

Implemented in [ImitatePass](#), and [RealPass](#).

Here is the caller graph for this function:



13.12.4.33 Insert()

```
virtual void Pass::Insert (
    QString file,
    QString value,
    bool force ) [pure virtual]
```

Implemented in [ImitatePass](#), and [RealPass](#).

13.12.4.34 listKeys() [1/2]

```
QList< UserInfo > Pass::listKeys (
    QString keystore = "",
    bool secret = false )
```

[Pass::listKeys](#) list users.

Parameters

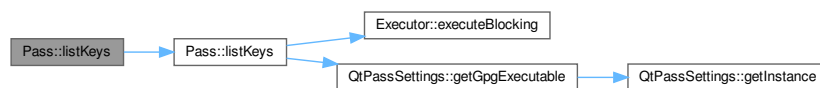
<i>keystore</i>	
<i>secret</i>	list private keys

Returns

QList<UserInfo> users

Definition at line 181 of file [pass.cpp](#).

Here is the call graph for this function:

**13.12.4.35 listKeys() [2/2]**

```
QList< UserInfo > Pass::listKeys (
    QStringList keystores,
    bool secret = false )
```

[Pass::listKeys](#) list users.

Parameters

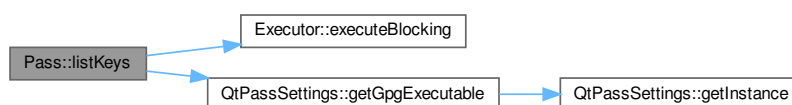
<i>keystrings</i>	
<i>secret</i>	list private keys

Returns

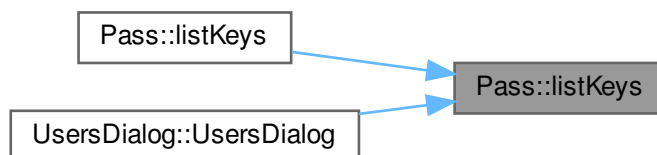
QList<UserInfo> users

Definition at line 130 of file [pass.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:

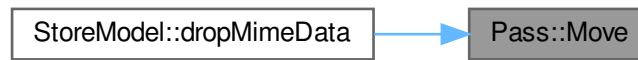


13.12.4.36 Move()

```
virtual void Pass::Move (  
    const QString srcDir,  
    const QString dest,  
    const bool force = false ) [pure virtual]
```

Implemented in [ImitatePass](#), and [RealPass](#).

Here is the caller graph for this function:



13.12.4.37 OtpGenerate()

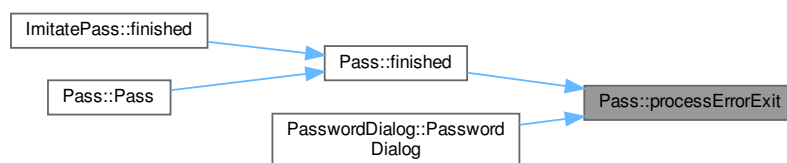
```
virtual void Pass::OtpGenerate (
    QString file ) [pure virtual]
```

Implemented in [ImitatePass](#), and [RealPass](#).

13.12.4.38 processErrorExit

```
void Pass::processErrorExit (
    int exitCode,
    const QString & err ) [signal]
```

Here is the caller graph for this function:



13.12.4.39 Remove()

```
virtual void Pass::Remove (
    QString file,
    bool isDir ) [pure virtual]
```

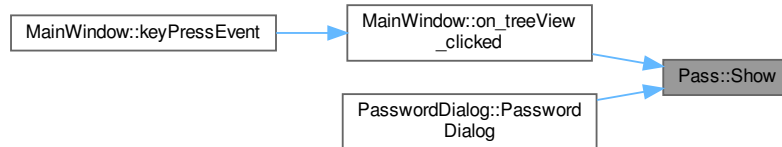
Implemented in [ImitatePass](#), and [RealPass](#).

13.12.4.40 Show()

```
virtual void Pass::Show (  
    QString file ) [pure virtual]
```

Implemented in [ImitatePass](#), and [RealPass](#).

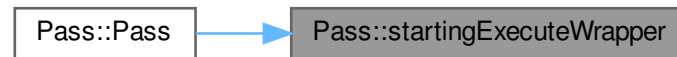
Here is the caller graph for this function:



13.12.4.41 startingExecuteWrapper

```
void Pass::startingExecuteWrapper ( ) [signal]
```

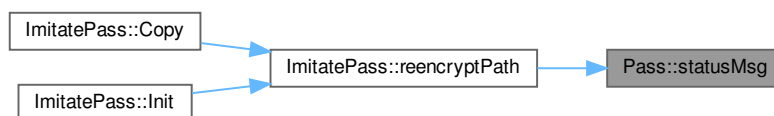
Here is the caller graph for this function:



13.12.4.42 statusMsg

```
void Pass::statusMsg (  
    QString ,  
    int ) [signal]
```

Here is the caller graph for this function:



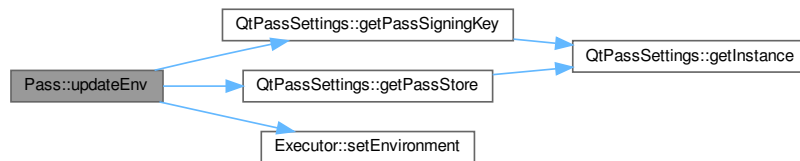
13.12.4.43 updateEnv()

```
void Pass::updateEnv ( )
```

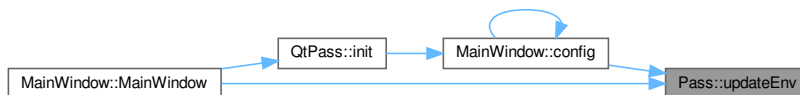
[Pass::updateEnv](#) update the execution environment (used when switching profiles)

Definition at line 248 of file [pass.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.12.5 Member Data Documentation

13.12.5.1 exec

```
Executor Pass::exec [protected]
```

Definition at line 25 of file [pass.h](#).

The documentation for this class was generated from the following files:

- [src/pass.h](#)
- [src/pass.cpp](#)

13.13 PasswordConfiguration Struct Reference

Holds the Password configuration settings.

```
#include <passwordconfiguration.h>
```

Public Types

- enum [characterSet](#) {
 [ALLCHARS](#) = 0 , [ALPHABETICAL](#) , [ALPHANUMERIC](#) , [CUSTOM](#) ,
 [CHARSETS_COUNT](#) }

The selected character set.

Public Member Functions

- [PasswordConfiguration](#) ()

Public Attributes

- enum [PasswordConfiguration::characterSet](#) [selected](#)
- int [length](#)
- QString [Characters](#) [[CHARSETS_COUNT](#)]

The different character sets.

13.13.1 Detailed Description

Holds the Password configuration settings.

Definition at line 10 of file [passwordconfiguration.h](#).

13.13.2 Member Enumeration Documentation

13.13.2.1 characterSet

enum [PasswordConfiguration::characterSet](#)

The selected character set.

Enumerator

ALLCHARS	
ALPHABETICAL	
ALPHANUMERIC	
CUSTOM	
CHARSETS_COUNT	

Definition at line 14 of file [passwordconfiguration.h](#).

13.13.3 Constructor & Destructor Documentation

13.13.3.1 PasswordConfiguration()

```
PasswordConfiguration::PasswordConfiguration ( ) [inline]
```

Definition at line 29 of file [passwordconfiguration.h](#).

13.13.4 Member Data Documentation

13.13.4.1 Characters

```
QString PasswordConfiguration::Characters[CHARSETS_COUNT]
```

The different character sets.

Definition at line 28 of file [passwordconfiguration.h](#).

13.13.4.2 length

```
int PasswordConfiguration::length
```

Length of the password.

Definition at line 24 of file [passwordconfiguration.h](#).

13.13.4.3 selected

```
enum PasswordConfiguration::characterSet PasswordConfiguration::selected
```

The documentation for this struct was generated from the following file:

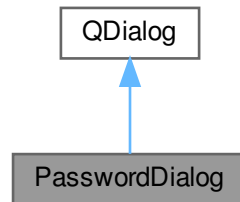
- [src/passwordconfiguration.h](#)

13.14 PasswordDialog Class Reference

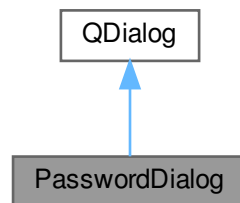
[PasswordDialog](#) Handles the inserting and editing of passwords.

```
#include <passworddialog.h>
```

Inheritance diagram for PasswordDialog:



Collaboration diagram for PasswordDialog:



Public Slots

- void [setPass](#) (const QString &output)

Public Member Functions

- [PasswordDialog](#) (const [PasswordConfiguration](#) &passConfig, QWidget *parent=nullptr)
[PasswordDialog::PasswordDialog](#) basic constructor.
- [PasswordDialog](#) (const QString &file, const bool &isNew, QWidget *parent=nullptr)
[PasswordDialog::PasswordDialog](#) complete constructor.
- [~PasswordDialog](#) ()
[PasswordDialog::~~PasswordDialog](#) basic destructor.
- void [setPassword](#) (QString password)

- Sets content in the password field in the interface.*

 - [QString getPassword](#) ()

Returns the password as set in the password field in the interface.
- void [setTemplate](#) (QString rawFields, bool useTemplate)

Sets content in the template for the interface.
- void [templateAll](#) (bool templateAll)

[PasswordDialog::templateAll](#) basic setter for use in [PasswordDialog::setPassword](#) templating all tokenisable lines.
- void [setLength](#) (int l)

[PasswordDialog::setLength](#) [PasswordDialog::setLength](#) password length.
- void [setPasswordCharTemplate](#) (int t)

[PasswordDialog::setPasswordCharTemplate](#) [PasswordDialog::setPasswordCharTemplate](#) chose the template style.
- void [usePwgen](#) (bool usePwgen)

[PasswordDialog::usePwgen](#) [PasswordDialog::usePwgen](#) don't use own password generator.

13.14.1 Detailed Description

[PasswordDialog](#) Handles the inserting and editing of passwords.

Includes templated views.

Definition at line 20 of file [passworddialog.h](#).

13.14.2 Constructor & Destructor Documentation

13.14.2.1 PasswordDialog() [1/2]

```
PasswordDialog::PasswordDialog (
    const PasswordConfiguration & passConfig,
    QWidget * parent = nullptr ) [explicit]
```

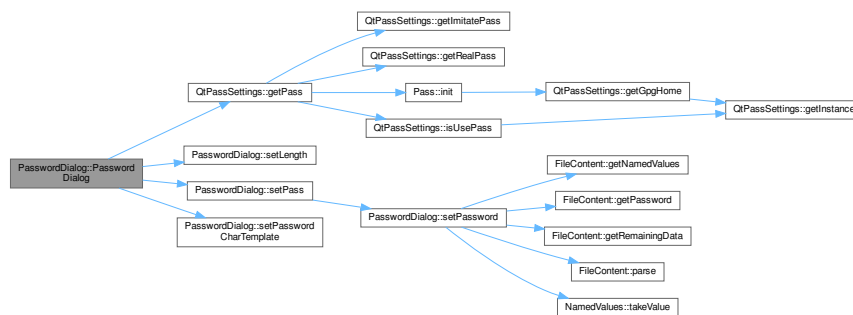
[PasswordDialog::PasswordDialog](#) basic constructor.

Parameters

<i>passConfig</i>	configuration constant
<i>parent</i>	

Definition at line 20 of file [passworddialog.cpp](#).

Here is the call graph for this function:



13.14.2.2 PasswordDialog() [2/2]

```

PasswordDialog::PasswordDialog (
    const QString & file,
    const bool & isNew,
    QWidget * parent = nullptr )

```

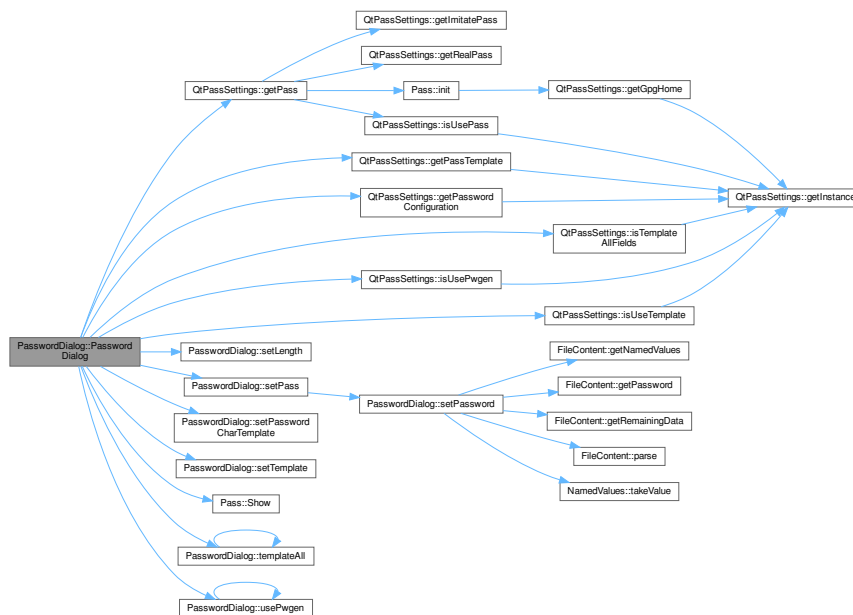
[PasswordDialog::PasswordDialog](#) complete constructor.

Parameters

<i>file</i>	
<i>isNew</i>	
<i>parent</i>	pointer

Definition at line 41 of file [passworddialog.cpp](#).

Here is the call graph for this function:



13.14.2.3 ~PasswordDialog()

```
PasswordDialog::~~PasswordDialog ( )
```

[Pass{}}wordDialog::~~PasswordDialog](#) basic destructor.

Definition at line 72 of file [passworddialog.cpp](#).

13.14.3 Member Function Documentation

13.14.3.1 getPassword()

```
QString PasswordDialog::getPassword ( )
```

Returns the password as set in the password field in the interface.

[PasswordDialog::getPassword](#) join the (templated) fields to a QString for writing back.

Returns

password as a QString

See also

[setPassword](#)

Returns

collapsed password.

Definition at line 156 of file [passworddialog.cpp](#).

13.14.3.2 setPassword()

```
void PasswordDialog::setLength (
    int l )
```

[PasswordDialog::setLength](#) [PasswordDialog::setLength](#) password length.

Parameters

<i>l</i>	
----------	--

Definition at line 208 of file [passworddialog.cpp](#).

Here is the caller graph for this function:

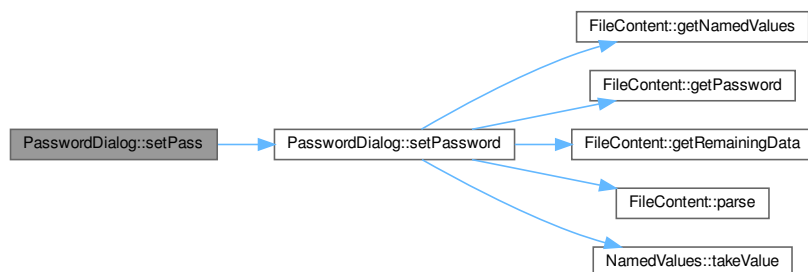


13.14.3.3 setPassword

```
void PasswordDialog::setPass (
    const QString & output ) [slot]
```

Definition at line 229 of file [passworddialog.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.14.3.4 setPassword()

```
void PasswordDialog::setPassword (
    QString password )
```

Sets content in the password field in the interface.

[PasswordDialog::setPassword](#) populate the (templated) fields.

Parameters

<i>password</i>	the password as a QString
-----------------	---------------------------

See also

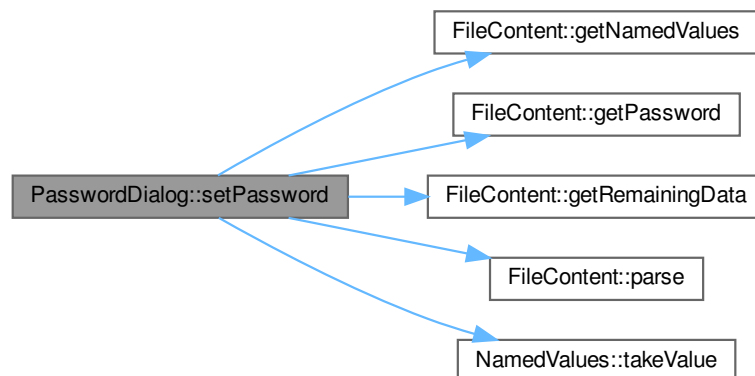
[getPassword](#)

Parameters

<i>password</i>	
-----------------	--

Definition at line 124 of file [passworddialog.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.14.3.5 setPasswordCharTemplate()

```
void PasswordDialog::setPasswordCharTemplate (
    int t )
```

[PasswordDialog::setPasswordCharTemplate](#) [PasswordDialog::setPasswordCharTemplate](#) chose the template style.

Parameters

<i>t</i>	
----------	--

Definition at line 215 of file [passworddialog.cpp](#).

Here is the caller graph for this function:



13.14.3.6 `setTemplate()`

```
void PasswordDialog::setTemplate (
    QString rawFields,
    bool useTemplate )
```

Sets content in the template for the interface.

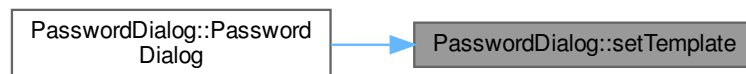
[PasswordDialog::setTemplate](#) set the template and create the fields.

Parameters

<i>rawFields</i>	is the template as a QString
<i>useTemplate</i>	whether the template is used
<i>rawFields</i>	

Definition at line 174 of file [passworddialog.cpp](#).

Here is the caller graph for this function:



13.14.3.7 `templateAll()`

```
void PasswordDialog::templateAll (
    bool templateAll )
```

[PasswordDialog::templateAll](#) basic setter for use in [PasswordDialog::setPassword](#) templating all tokenisable lines.

Parameters

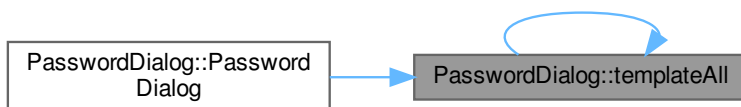
<i>templateAll</i>	
--------------------	--

Definition at line 199 of file [passworddialog.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.14.3.8 usePwgen()

```
void PasswordDialog::usePwgen (  
    bool usePwgen )
```

[PasswordDialog::usePwgen](#) [PasswordDialog::usePwgen](#) don't use own password generator.

Parameters

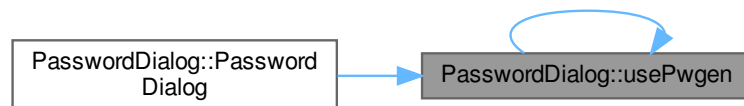
<i>usePwgen</i>	
-----------------	--

Definition at line 224 of file [passworddialog.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



The documentation for this class was generated from the following files:

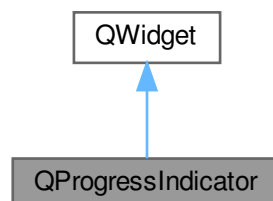
- [src/passworddialog.h](#)
- [src/passworddialog.cpp](#)

13.15 QProgressIndicator Class Reference

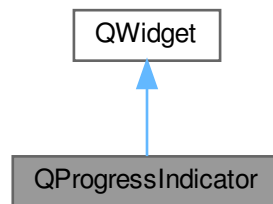
The [QProgressIndicator](#) class lets an application display a progress indicator to show that a lengthy task is under way.

```
#include <qprogressindicator.h>
```

Inheritance diagram for QProgressIndicator:



Collaboration diagram for QProgressIndicator:



Public Slots

- void [startAnimation](#) ()
Starts the spin animation.
- void [stopAnimation](#) ()
Stops the spin animation.
- void [setAnimationDelay](#) (int delay)
Sets the delay between animation steps.
- void [setDisplayWhenStopped](#) (bool state)
Sets whether the component hides itself when it is not animating.
- void [setColor](#) (const QColor &color)
Sets the color of the components to the given color.

Public Member Functions

- [QProgressIndicator](#) (QWidget *parent=0)
QProgressIndicator::QProgressIndicator constructor.
- int [animationDelay](#) () const
Returns the delay between animation steps.
- bool [isAnimated](#) () const
Returns a Boolean value indicating whether the component is currently animated.
- bool [isDisplayedWhenStopped](#) () const
Returns a Boolean value indicating whether the receiver shows itself even when it is not animating.
- const QColor & [color](#) () const
Returns the color of the component.
- virtual QSize [sizeHint](#) () const
QProgressIndicator::sizeHint default minimum size.
- int [heightForWidth](#) (int w) const
QProgressIndicator::heightForWidth square ratio.

Protected Member Functions

- virtual void [timerEvent](#) (QTimerEvent *event)
QProgressIndicator::timerEvent do the actual animation.
- virtual void [paintEvent](#) (QPaintEvent *event)
QProgressIndicator::paintEvent draw the spinner.

13.15.1 Detailed Description

The [QProgressIndicator](#) class lets an application display a progress indicator to show that a lengthy task is under way.

Progress indicators are indeterminate and do nothing more than spin to show that the application is busy.

See also

[QProgressBar](#)

Definition at line 43 of file [qprogressindicator.h](#).

13.15.2 Constructor & Destructor Documentation

13.15.2.1 QProgressIndicator()

```
QProgressIndicator::QProgressIndicator (
    QWidget * parent = 0 ) [explicit]
```

[QProgressIndicator::QProgressIndicator](#) constructor.

Parameters

<i>parent</i>	widget the indicator is placed in.
---------------	------------------------------------

Definition at line 34 of file [qprogressindicator.cpp](#).

13.15.3 Member Function Documentation

13.15.3.1 animationDelay()

```
int QProgressIndicator::animationDelay ( ) const [inline]
```

Returns the delay between animation steps.

Returns

The number of milliseconds between animation steps. By default, the animation delay is set to 40 milliseconds.

See also

[setAnimationDelay](#)

Definition at line 53 of file [qprogressindicator.h](#).

13.15.3.2 color()

```
const QColor & QProgressIndicator::color ( ) const [inline]
```

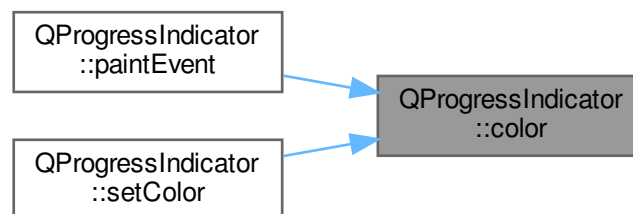
Returns the color of the component.

See also

[setColor](#)

Definition at line 73 of file [qprogressindicator.h](#).

Here is the caller graph for this function:



13.15.3.3 heightForWidth()

```
int QProgressIndicator::heightForWidth (
    int w ) const
```

[QProgressIndicator::heightForWidth](#) square ratio.

Parameters

<i>w</i>	requested width
----------	-----------------

Returns

w returned height

Definition at line 96 of file [qprogressindicator.cpp](#).

13.15.3.4 isAnimated()

```
bool QProgressIndicator::isAnimated ( ) const
```

Returns a Boolean value indicating whether the component is currently animated.

Returns

Animation state.

See also

[startAnimation](#) [stopAnimation](#)

Definition at line 41 of file [qprogressindicator.cpp](#).

Here is the caller graph for this function:



13.15.3.5 isDisplayedWhenStopped()

```
bool QProgressIndicator::isDisplayedWhenStopped ( ) const
```

Returns a Boolean value indicating whether the receiver shows itself even when it is not animating.

Returns

Return true if the progress indicator shows itself even when it is not animating. By default, it returns false.

See also

[setDisplayedWhenStopped](#)

Definition at line 49 of file [qprogressindicator.cpp](#).

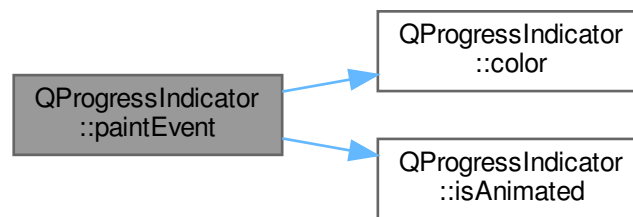
13.15.3.6 paintEvent()

```
void QProgressIndicator::paintEvent (
    QPaintEvent * event ) [protected], [virtual]
```

[QProgressIndicator::paintEvent](#) draw the spinner.

Definition at line 110 of file [qprogressindicator.cpp](#).

Here is the call graph for this function:



13.15.3.7 setAnimationDelay

```
void QProgressIndicator::setAnimationDelay (
    int delay ) [slot]
```

Sets the delay between animation steps.

Setting the *delay* to a value larger than 40 slows the animation, while setting the *delay* to a smaller value speeds it up.

Parameters

<i>delay</i>	The delay, in milliseconds.
--------------	-----------------------------

See also

[animationDelay](#)

Definition at line 69 of file [qprogressindicator.cpp](#).

13.15.3.8 setColor

```
void QProgressIndicator::setColor (
    const QColor & color ) [slot]
```

Sets the color of the components to the given color.

See also

[color](#)

Definition at line 79 of file [qprogressindicator.cpp](#).

Here is the call graph for this function:



13.15.3.9 setDisplayedWhenStopped

```
void QProgressIndicator::setDisplayedWhenStopped (
    bool state ) [slot]
```

Sets whether the component hides itself when it is not animating.

Parameters

<i>state</i>	The animation state. Set false to hide the progress indicator when it is not animating; otherwise true.
--------------	---

See also

[isDisplayedWhenStopped](#)

Definition at line 43 of file [qprogressindicator.cpp](#).

13.15.3.10 sizeHint()

```
QSize QProgressIndicator::sizeHint ( ) const [virtual]
```

[QProgressIndicator::sizeHint](#) default minimum size.

Returns

QSize(20, 20)

Definition at line 89 of file [qprogressindicator.cpp](#).

13.15.3.11 startAnimation

```
void QProgressIndicator::startAnimation ( ) [slot]
```

Starts the spin animation.

See also

[stopAnimation](#) [isAnimated](#)

Definition at line 53 of file [qprogressindicator.cpp](#).

13.15.3.12 stopAnimation

```
void QProgressIndicator::stopAnimation ( ) [slot]
```

Stops the spin animation.

See also

[startAnimation](#) [isAnimated](#)

Definition at line 60 of file [qprogressindicator.cpp](#).

13.15.3.13 timerEvent()

```
void QProgressIndicator::timerEvent (
    QTimerEvent * event ) [protected], [virtual]
```

[QProgressIndicator::timerEvent](#) do the actual animation.

Definition at line 101 of file [qprogressindicator.cpp](#).

The documentation for this class was generated from the following files:

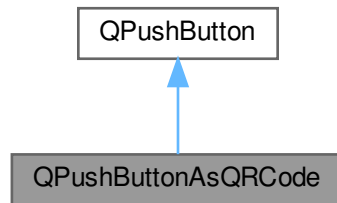
- [src/qprogressindicator.h](#)
- [src/qprogressindicator.cpp](#)

13.16 QPushButtonAsQRCode Class Reference

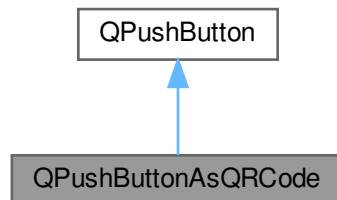
Stylish widget to display the field as QR Code.

```
#include <qpushbuttonasqrcode.h>
```

Inheritance diagram for QPushButtonAsQRCode:



Collaboration diagram for QPushButtonAsQRCode:



Signals

- void [clicked](#) (QString)

Public Member Functions

- [QPushButtonAsQRCode](#) (const QString &textToCopy="", QWidget *parent=nullptr)
[QPushButtonAsQRCode::QPushButtonAsQRCode](#) basic constructor.
- QString [getTextToCopy](#) () const
[QPushButtonAsQRCode::getTextToCopy](#) returns the text of associated text field.
- void [setTextToCopy](#) (const QString &value)
[QPushButtonAsQRCode::setTextToCopy](#) sets text from associated text field.

13.16.1 Detailed Description

Stylish widget to display the field as QR Code.

Definition at line 11 of file [qpushbuttonasqrcode.h](#).

13.16.2 Constructor & Destructor Documentation

13.16.2.1 QPushButtonAsQRCode()

```
QPushButtonAsQRCode::QPushButtonAsQRCode (
    const QString & textToCopy = "",
    QWidget * parent = nullptr ) [explicit]
```

[QPushButtonAsQRCode::QPushButtonAsQRCode](#) basic constructor.

Parameters

<i>textToCopy</i>	the text to display as qrcode
<i>parent</i>	the parent window

Definition at line 12 of file [qpushbuttonasqrcode.cpp](#).

13.16.3 Member Function Documentation

13.16.3.1 clicked

```
void QPushButtonAsQRCode::clicked (
    QString ) [signal]
```

Here is the caller graph for this function:



13.16.3.2 `getTextToCopy()`

```
QString QPushButtonAsQRCode::getTextToCopy ( ) const
```

[QPushButtonAsQRCode::getTextToCopy](#) returns the text of associated text field.

Returns

QString textToCopy

Definition at line 25 of file [qpushbuttonasqrcode.cpp](#).

13.16.3.3 `setTextToCopy()`

```
void QPushButtonAsQRCode::setTextToCopy (
    const QString & value )
```

[QPushButtonAsQRCode::setTextToCopy](#) sets text from associated text field.

Parameters

<i>value</i>	QString text to be copied
--------------	---------------------------

Definition at line 32 of file [qpushbuttonasqrcode.cpp](#).

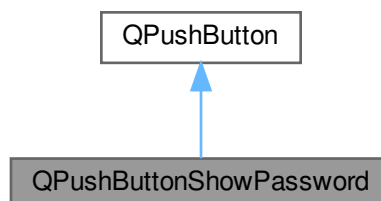
The documentation for this class was generated from the following files:

- [src/qpushbuttonasqrcode.h](#)
- [src/qpushbuttonasqrcode.cpp](#)

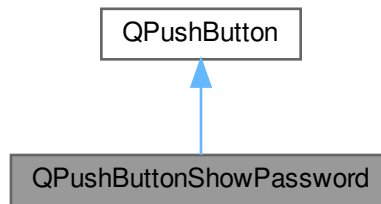
13.17 QPushButtonShowPassword Class Reference

```
#include <qpushbuttonshowpassword.h>
```

Inheritance diagram for QPushButtonShowPassword:



Collaboration diagram for QPushButtonShowPassword:



Signals

- void [clicked](#) (QString)

Public Member Functions

- [QPushButtonShowPassword](#) (QLineEdit *line, QWidget *parent=nullptr)
[QPushButtonAsQRCode::QPushButtonAsQRCode](#) basic constructor.

13.17.1 Detailed Description

Definition at line 12 of file [qpushbuttonshowpassword.h](#).

13.17.2 Constructor & Destructor Documentation

13.17.2.1 QPushButtonShowPassword()

```

QPushButtonShowPassword::QPushButtonShowPassword (
    QLineEdit * line,
    QWidget * parent = nullptr ) [explicit]
  
```

[QPushButtonAsQRCode::QPushButtonAsQRCode](#) basic constructor.

Parameters

<i>textToCopy</i>	the text to display as qrcode
<i>parent</i>	the parent window

Definition at line 12 of file [qpushbuttonshowpassword.cpp](#).

13.17.3 Member Function Documentation

13.17.3.1 clicked

```
void QPushButtonShowPassword::clicked (
    QString ) [signal]
```

Here is the caller graph for this function:



The documentation for this class was generated from the following files:

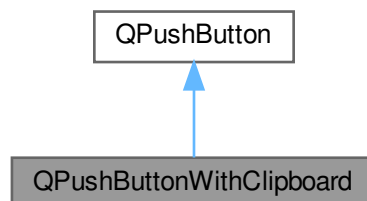
- [src/qpushbuttonshowpassword.h](#)
- [src/qpushbuttonshowpassword.cpp](#)

13.18 QPushButtonWithClipboard Class Reference

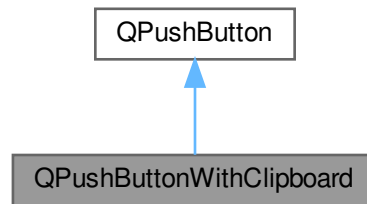
Stylish widget to allow copying of password and account details.

```
#include <qpushbuttonwithclipboard.h>
```

Inheritance diagram for QPushButtonWithClipboard:



Collaboration diagram for QPushButtonWithClipboard:



Signals

- void [clicked](#) (QString)

Public Member Functions

- [QPushButtonWithClipboard](#) (const QString &textToCopy="", QWidget *parent=nullptr)
[QPushButtonWithClipboard::QPushButtonWithClipboard](#) basic constructor.
- QString [getTextToCopy](#) () const
[QPushButtonWithClipboard::getTextToCopy](#) returns the text of associated text field.
- void [setTextToCopy](#) (const QString &value)
[QPushButtonWithClipboard::setTextToCopy](#) sets text from associated text field.

13.18.1 Detailed Description

Stylish widget to allow copying of password and account details.

Definition at line 11 of file [qpushbuttonwithclipboard.h](#).

13.18.2 Constructor & Destructor Documentation

13.18.2.1 QPushButtonWithClipboard()

```
QPushButtonWithClipboard::QPushButtonWithClipboard (  
    const QString & textToCopy = "",  
    QWidget * parent = nullptr ) [explicit]
```

[QPushButtonWithClipboard::QPushButtonWithClipboard](#) basic constructor.

Parameters

<i>textToCopy</i>	the text to paste into the clipboard
<i>parent</i>	the parent window

Definition at line 12 of file [qpushbuttonwithclipboard.cpp](#).

13.18.3 Member Function Documentation

13.18.3.1 clicked

```
void QPushButtonWithClipboard::clicked (
    QString ) [signal]
```

Here is the caller graph for this function:



13.18.3.2 getTextToCopy()

```
QString QPushButtonWithClipboard::getTextToCopy ( ) const
```

[QPushButtonWithClipboard::getTextToCopy](#) returns the text of associated text field.

Returns

QString textToCopy

Definition at line 27 of file [qpushbuttonwithclipboard.cpp](#).

13.18.3.3 setTextToCopy()

```
void QPushButtonWithClipboard::setTextToCopy (
    const QString & value )
```

[QPushButtonWithClipboard::setTextToCopy](#) sets text from associated text field.

Parameters

<i>value</i>	QString text to be copied
--------------	---------------------------

Definition at line 34 of file [qpushbuttonwithclipboard.cpp](#).

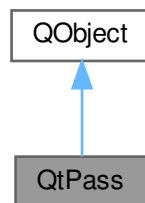
The documentation for this class was generated from the following files:

- [src/qpushbuttonwithclipboard.h](#)
- [src/qpushbuttonwithclipboard.cpp](#)

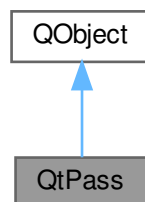
13.19 QtPass Class Reference

```
#include <qtpass.h>
```

Inheritance diagram for QtPass:



Collaboration diagram for QtPass:



Public Slots

- void [clearClipboard](#) ()
MainWindow::clearClipboard remove clipboard contents.
- void [copyTextToClipboard](#) (const QString &text)
MainWindow::copyTextToClipboard copies text to your clipboard.
- void [showTextAsQRCode](#) (const QString &text)
displays the text as qrcode

Public Member Functions

- [QtPass](#) (MainWindow *mainWindow)
- [~QtPass](#) ()
QtPass::~~QtPass destroy!
- bool [init](#) ()
QtPass::init make sure we are ready to go as soon as possible.
- void [setClippedText](#) (const QString &, const QString &p_output=QString())
- void [clearClippedText](#) ()
- void [setClipboardTimer](#) ()
- bool [isFreshStart](#) ()
- void [setFreshStart](#) (const bool &fs)

13.19.1 Detailed Description

Definition at line 10 of file [qtpass.h](#).

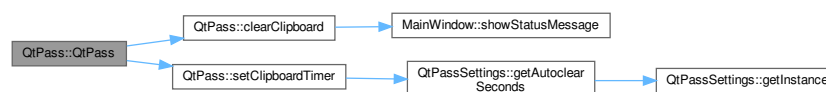
13.19.2 Constructor & Destructor Documentation

13.19.2.1 QtPass()

```
QtPass::QtPass (
    MainWindow * mainWindow )
```

Definition at line 28 of file [qtpass.cpp](#).

Here is the call graph for this function:



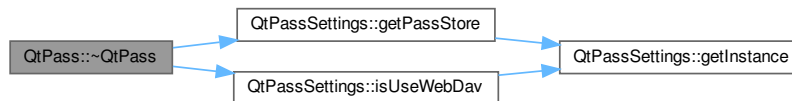
13.19.2.2 ~QtPass()

QtPass::~~QtPass ()

QtPass::~~QtPass destroy!

Definition at line 44 of file [qtpass.cpp](#).

Here is the call graph for this function:



13.19.3 Member Function Documentation

13.19.3.1 clearClipboard

void QtPass::clearClipboard () [slot]

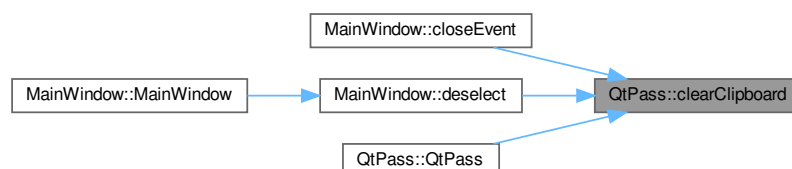
MainWindow::clearClipboard remove clipboard contents.

Definition at line 366 of file [qtpass.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:

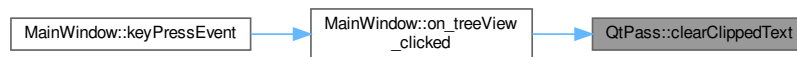


13.19.3.2 clearClippedText()

```
void QtPass::clearClippedText ( )
```

Definition at line 357 of file [qtpass.cpp](#).

Here is the caller graph for this function:



13.19.3.3 copyTextToClipboard

```
void QtPass::copyTextToClipboard (
    const QString & text ) [slot]
```

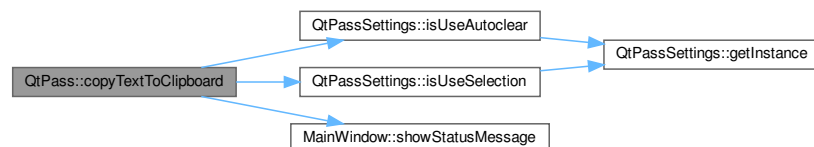
MainWindow::copyTextToClipboard copies text to your clipboard.

Parameters

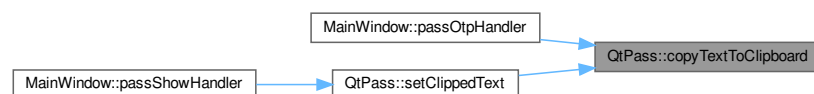
<i>text</i>	
-------------	--

Definition at line 391 of file [qtpass.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



```
bool QtPass::init ( )
```

Definition at line 61 of file qtpass.cpp.

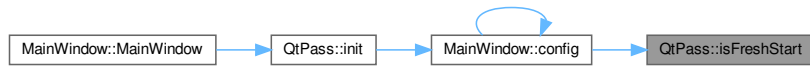
```
graph LR; A[MainWindow::MainWindow] --> B[QtPass::init]
```

13.19.3.5 isFreshStart()

```
bool QtPass::isFreshStart ( ) [inline]
```

Definition at line 21 of file [qtpass.h](#).

Here is the caller graph for this function:

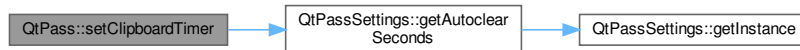


13.19.3.6 setClipboardTimer()

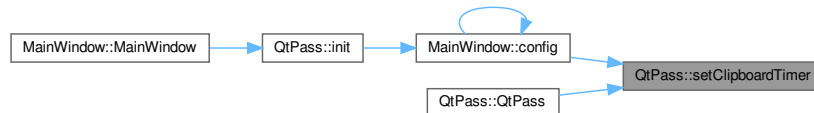
```
void QtPass::setClipboardTimer ( )
```

Definition at line 359 of file [qtpass.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:

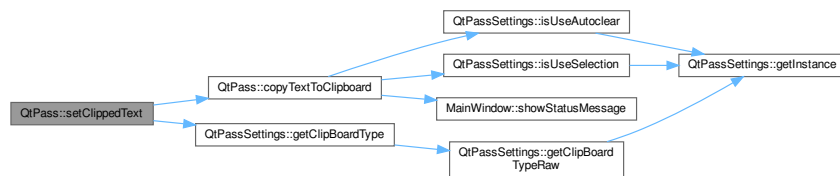


13.19.3.7 setClippedText()

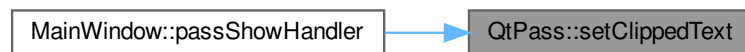
```
void QtPass::setClippedText (
    const QString & password,
    const QString & p_output = QString() )
```

Definition at line 349 of file [qtpass.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.19.3.8 setFreshStart()

```
void QtPass::setFreshStart (
    const bool & fs ) [inline]
```

Definition at line 22 of file [qtpass.h](#).

Here is the caller graph for this function:



13.19.3.9 showTextAsQRCode

```
void QtPass::showTextAsQRCode (
    const QString & text ) [slot]
```

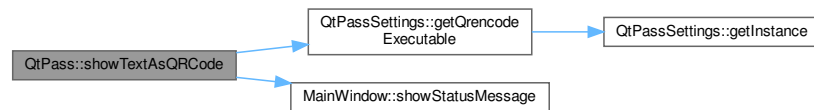
displays the text as qrcode

Parameters

<i>text</i>	
-------------	--

Definition at line 410 of file [qtpass.cpp](#).

Here is the call graph for this function:



The documentation for this class was generated from the following files:

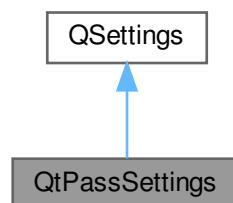
- [src/qtpass.h](#)
- [src/qtpass.cpp](#)

13.20 QtPassSettings Class Reference

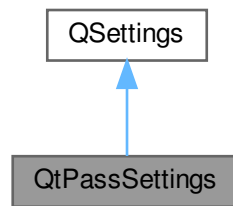
Singleton that stores qtpass' settings, saves and loads config.

```
#include <qtpasssettings.h>
```

Inheritance diagram for QtPassSettings:



Collaboration diagram for QtPassSettings:



Static Public Member Functions

- static [QtPassSettings * getInstance](#) ()
- static [QString getVersion](#) (const [QString](#) &defaultValue=[QVariant\(\)](#).toString())
- static void [setVersion](#) (const [QString](#) &version)
- static [QByteArray getGeometry](#) (const [QByteArray](#) &defaultValue=[QVariant\(\)](#).toByteArray())
- static void [setGeometry](#) (const [QByteArray](#) &geometry)
- static [QByteArray getSavestate](#) (const [QByteArray](#) &defaultValue=[QVariant\(\)](#).toByteArray())
- static void [setSavestate](#) (const [QByteArray](#) &saveState)
- static [QPoint getPos](#) (const [QPoint](#) &defaultValue=[QVariant\(\)](#).toPoint())
- static void [setPos](#) (const [QPoint](#) &pos)
- static [QSize getSize](#) (const [QSize](#) &defaultValue=[QVariant\(\)](#).toSize())
- static void [setSize](#) (const [QSize](#) &size)
- static bool [isMaximized](#) (const bool &defaultValue=[QVariant\(\)](#).toBool())
- static void [setMaximized](#) (const bool &maximized)
- static bool [isUsePass](#) (const bool &defaultValue=[QVariant\(\)](#).toBool())
- static void [setUsePass](#) (const bool &usePass)
- static int [getClipboardTypeRaw](#) (const [Enums::clipboardType](#) &defaultValue=[Enums::CLIPBOARD_NEVER](#))
- static [Enums::clipboardType getClipboardType](#) (const [Enums::clipboardType](#) &defaultValue=[Enums::CLIPBOARD_NEVER](#))
- static void [setClipboardType](#) (const int &clipboardType)
- static bool [isUseSelection](#) (const bool &defaultValue=[QVariant\(\)](#).toBool())
- static void [setUseSelection](#) (const bool &useSelection)
- static bool [isUseAutoclear](#) (const bool &defaultValue=[QVariant\(\)](#).toBool())
- static void [setUseAutoclear](#) (const bool &useAutoclear)
- static int [getAutoclearSeconds](#) (const int &defaultValue=[QVariant\(\)](#).toInt())
- static void [setAutoclearSeconds](#) (const int &autoClearSeconds)
- static bool [isUseAutoclearPanel](#) (const bool &defaultValue=[QVariant\(\)](#).toBool())
- static void [setUseAutoclearPanel](#) (const bool &useAutoclearPanel)
- static int [getAutoclearPanelSeconds](#) (const int &defaultValue=[QVariant\(\)](#).toInt())
- static void [setAutoclearPanelSeconds](#) (const int &autoClearPanelSeconds)
- static bool [isHidePassword](#) (const bool &defaultValue=[QVariant\(\)](#).toBool())
- static void [setHidePassword](#) (const bool &hidePassword)
- static bool [isHideContent](#) (const bool &defaultValue=[QVariant\(\)](#).toBool())
- static void [setHideContent](#) (const bool &hideContent)
- static bool [isUseMonospace](#) (const bool &defaultValue=[QVariant\(\)](#).toBool())
- static void [setUseMonospace](#) (const bool &useMonospace)
- static bool [isDisplayAsIs](#) (const bool &defaultValue=[QVariant\(\)](#).toBool())
- static void [setDisplayAsIs](#) (const bool &displayAsIs)

- static bool [isNoLineWrapping](#) (const bool &defaultValue=QVariant().toBool())
- static void [setNoLineWrapping](#) (const bool &noLineWrapping)
- static bool [isAddGPGId](#) (const bool &defaultValue=QVariant().toBool())
- static void [setAddGPGId](#) (const bool &addGPGId)
- static QString [getPassStore](#) (const QString &defaultValue=QVariant().toString())
- static void [setPassStore](#) (const QString &passStore)
- static QString [getPassSigningKey](#) (const QString &defaultValue=QVariant().toString())
- static void [setPassSigningKey](#) (const QString &passSigningKey)
- static void [initExecutables](#) ()
- static QString [getPassExecutable](#) (const QString &defaultValue=QVariant().toString())
- static void [setPassExecutable](#) (const QString &passExecutable)
- static QString [getGitExecutable](#) (const QString &defaultValue=QVariant().toString())
- static void [setGitExecutable](#) (const QString &gitExecutable)
- static QString [getGpgExecutable](#) (const QString &defaultValue=QVariant().toString())
- static void [setGpgExecutable](#) (const QString &gpgExecutable)
- static QString [getPwgenExecutable](#) (const QString &defaultValue=QVariant().toString())
- static void [setPwgenExecutable](#) (const QString &pwgenExecutable)
- static QString [getGpgHome](#) (const QString &defaultValue=QVariant().toString())
- static bool [isUseWebDav](#) (const bool &defaultValue=QVariant().toBool())
- static void [setUseWebDav](#) (const bool &useWebDav)
- static QString [getWebDavUrl](#) (const QString &defaultValue=QVariant().toString())
- static void [setWebDavUrl](#) (const QString &webDavUrl)
- static QString [getWebDavUser](#) (const QString &defaultValue=QVariant().toString())
- static void [setWebDavUser](#) (const QString &webDavUser)
- static QString [getWebDavPassword](#) (const QString &defaultValue=QVariant().toString())
- static void [setWebDavPassword](#) (const QString &webDavPassword)
- static QString [getProfile](#) (const QString &defaultValue=QVariant().toString())
- static void [setProfile](#) (const QString &profile)
- static bool [isUseGit](#) (const bool &defaultValue=QVariant().toBool())
- static void [setUseGit](#) (const bool &useGit)
- static bool [isUseOtp](#) (const bool &defaultValue=QVariant().toBool())
- static void [setUseOtp](#) (const bool &useOtp)
- static bool [isUseQrencode](#) (const bool &defaultValue=QVariant().toBool())
- static void [setUseQrencode](#) (const bool &useQrencode)
- static QString [getQrencodeExecutable](#) (const QString &defaultValue=QVariant().toString())
- static void [setQrencodeExecutable](#) (const QString &qrencodeExecutable)
- static bool [isUsePwgen](#) (const bool &defaultValue=QVariant().toBool())
- static void [setUsePwgen](#) (const bool &usePwgen)
- static bool [isAvoidCapitals](#) (const bool &defaultValue=QVariant().toBool())
- static void [setAvoidCapitals](#) (const bool &avoidCapitals)
- static bool [isAvoidNumbers](#) (const bool &defaultValue=QVariant().toBool())
- static void [setAvoidNumbers](#) (const bool &avoidNumbers)
- static bool [isLessRandom](#) (const bool &defaultValue=QVariant().toBool())
- static void [setLessRandom](#) (const bool &lessRandom)
- static bool [isUseSymbols](#) (const bool &defaultValue=QVariant().toBool())
- static void [setUseSymbols](#) (const bool &useSymbols)
- static [PasswordConfiguration](#) [getPasswordConfiguration](#) ()
- static void [setPasswordConfiguration](#) (const [PasswordConfiguration](#) &config)
- static void [setPasswordLength](#) (const int &passwordLength)
- static void [setPasswordCharsselection](#) (const int &passwordCharsselection)
- static void [setPasswordChars](#) (const QString &passwordChars)
- static bool [isUseTrayIcon](#) (const bool &defaultValue=QVariant().toBool())
- static void [setUseTrayIcon](#) (const bool &useTrayIcon)
- static bool [isHideOnClose](#) (const bool &defaultValue=QVariant().toBool())
- static void [setHideOnClose](#) (const bool &hideOnClose)

- static bool [isStartMinimized](#) (const bool &defaultValue=QVariant().toBool())
- static void [setStartMinimized](#) (const bool &startMinimized)
- static bool [isAlwaysOnTop](#) (const bool &defaultValue=QVariant().toBool())
- static void [setAlwaysOnTop](#) (const bool &alwaysOnTop)
- static bool [isAutoPull](#) (const bool &defaultValue=QVariant().toBool())
- static void [setAutoPull](#) (const bool &autoPull)
- static bool [isAutoPush](#) (const bool &defaultValue=QVariant().toBool())
- static void [setAutoPush](#) (const bool &autoPush)
- static QString [getPassTemplate](#) (const QString &defaultValue=QVariant().toString())
- static void [setPassTemplate](#) (const QString &passTemplate)
- static bool [isUseTemplate](#) (const bool &defaultValue=QVariant().toBool())
- static void [setUseTemplate](#) (const bool &useTemplate)
- static bool [isTemplateAllFields](#) (const bool &defaultValue=QVariant().toBool())
- static void [setTemplateAllFields](#) (const bool &templateAllFields)
- static QHash< QString, QHash< QString, QString > > [getProfiles](#) ()
- static void [setProfiles](#) (const QHash< QString, QHash< QString, QString > > &profiles)
- static [Pass](#) * [getPass](#) ()
- static [RealPass](#) * [getRealPass](#) ()
- static [ImitatePass](#) * [getImitatePass](#) ()

13.20.1 Detailed Description

Singleton that stores qtpass' settings, saves and loads config.

Definition at line 21 of file [qtpasssettings.h](#).

13.20.2 Member Function Documentation

13.20.2.1 getAutoclearPanelSeconds()

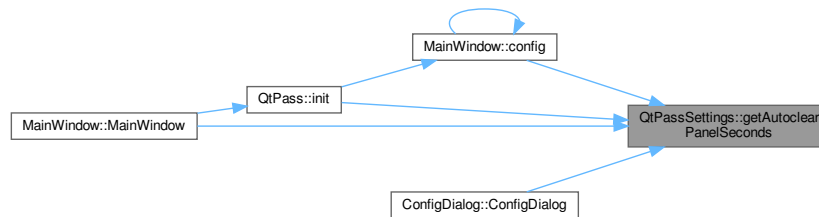
```
int QtPassSettings::getAutoclearPanelSeconds (
    const int & defaultValue = QVariant().toInt() ) [static]
```

Definition at line 236 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.2 getAutoclearSeconds()

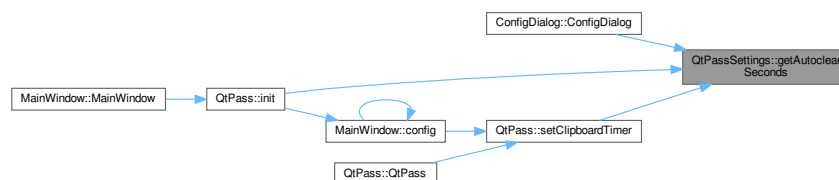
```
int QtPassSettings::getAutoclearSeconds (
    const int & defaultValue = QVariant().toInt() ) [static]
```

Definition at line 216 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:

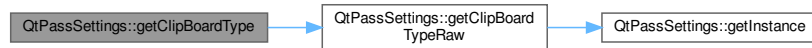


13.20.2.3 getClipBoardType()

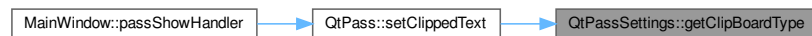
```
Enums::clipBoardType QtPassSettings::getClipBoardType (
    const Enums::clipBoardType & defaultValue = Enums::CLIPBOARD_NEVER ) [static]
```

Definition at line 191 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.4 getClipBoardTypeRaw()

```
int QtPassSettings::getClipBoardTypeRaw (
    const Enums::clipBoardType & defaultValue = Enums::CLIPBOARD_NEVER ) [static]
```

Definition at line 183 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.5 getGeometry()

```
QByteArray QtPassSettings::getGeometry (
    const QByteArray & defaultValue = QVariant().toByteArray() ) [static]
```

Definition at line 128 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.6 getGitExecutable()

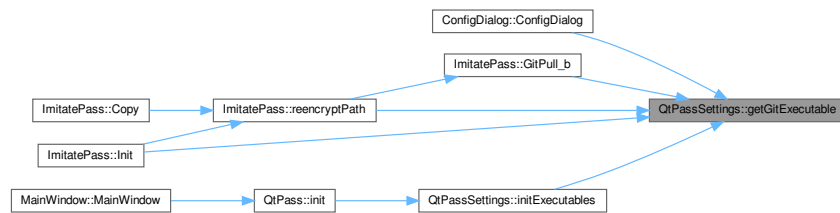
```
QString QtPassSettings::getGitExecutable (
    const QString & defaultValue = QVariant().toString() ) [static]
```

Definition at line 361 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.7 getGpgExecutable()

```

QString QtPassSettings::getGpgExecutable (
    const QString & defaultValue = QVariant().toString() ) [static]

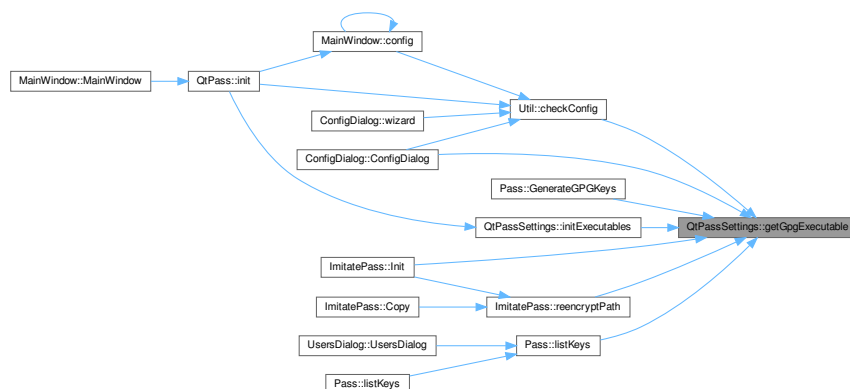
```

Definition at line 370 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.8 getGpgHome()

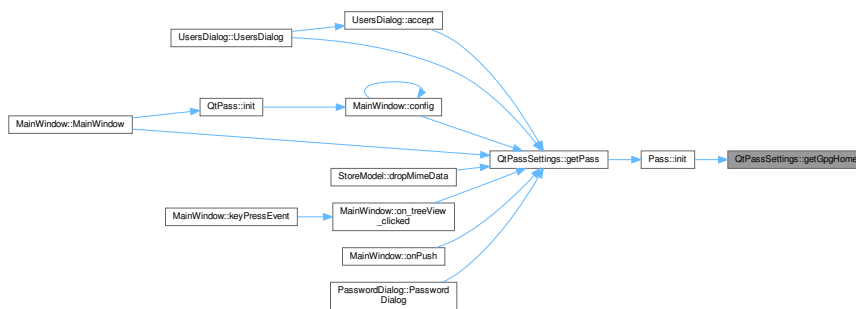
```
QString QtPassSettings::getGpgHome (
    const QString & defaultValue = QVariant().toString() ) [static]
```

Definition at line 388 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:

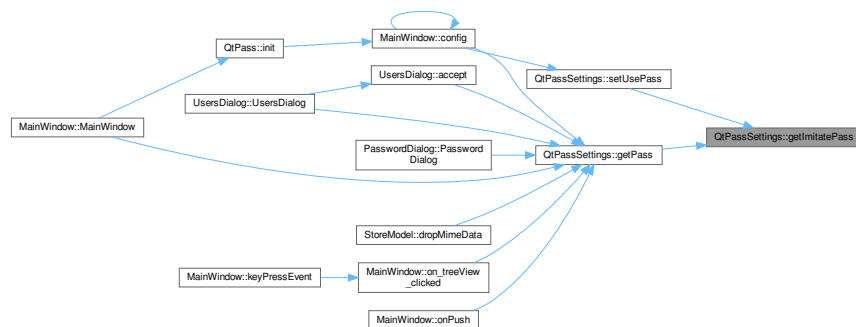


13.20.2.9 getImitatePass()

```
ImitatePass * QtPassSettings::getImitatePass ( ) [static]
```

Definition at line 618 of file [qtpasssettings.cpp](#).

Here is the caller graph for this function:

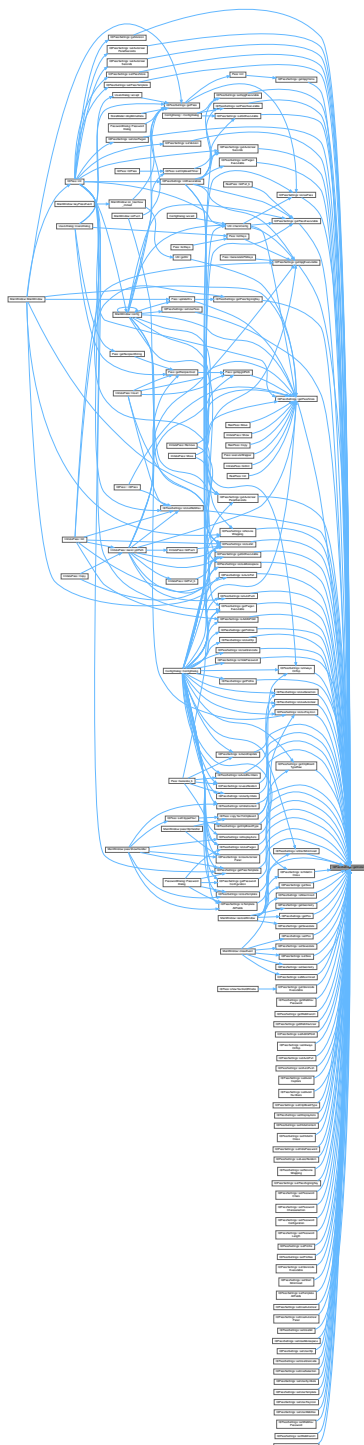


13.20.2.10 getInstance()

```
QtPassSettings * QtPassSettings::getInstance ( ) [static]
```

Definition at line 19 of file [qtpasssettings.cpp](#).

Here is the caller graph for this function:

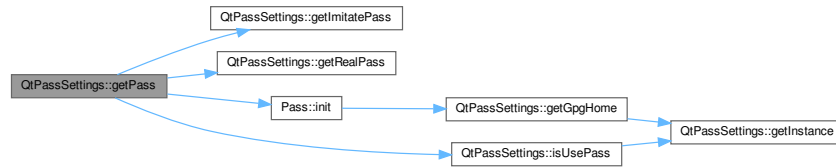


13.20.2.11 getPass()

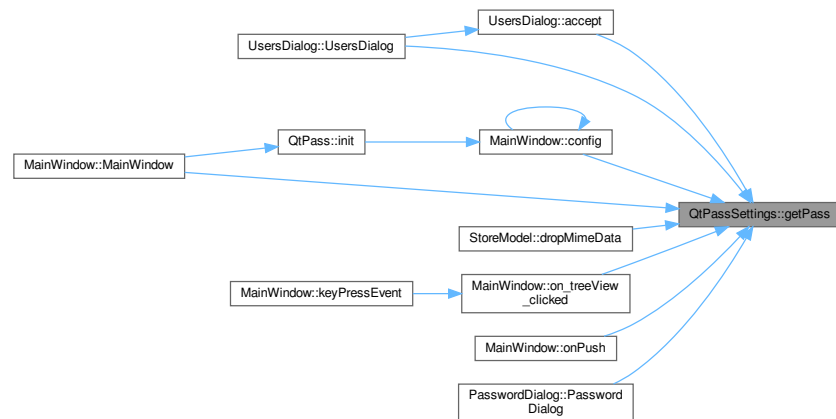
```
Pass * QtPassSettings::getPass ( ) [static]
```

Definition at line 107 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:

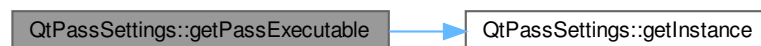


13.20.2.12 getPassExecutable()

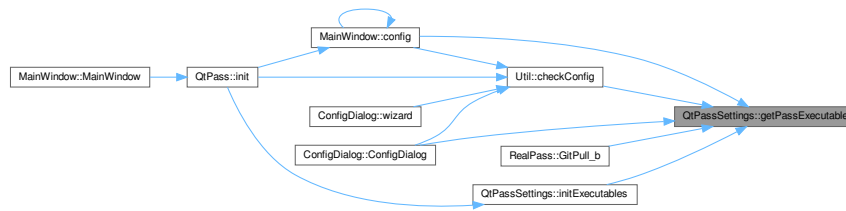
```
QString QtPassSettings::getPassExecutable (
    const QString & defaultValue = QVariant().toString() ) [static]
```

Definition at line 352 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:

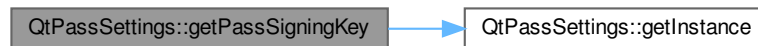


13.20.2.13 getPassSigningKey()

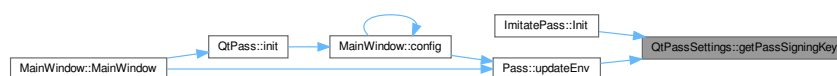
```
QString QtPassSettings::getPassSigningKey (
    const QString & defaultValue = QVariant().toString() ) [static]
```

Definition at line 326 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.14 getPassStore()

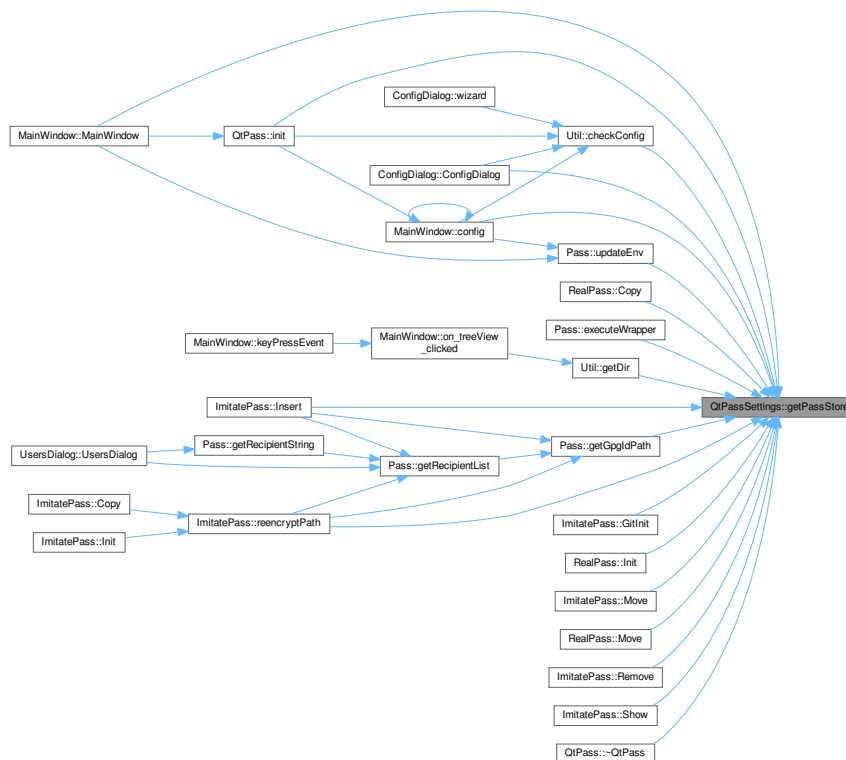
```
QString QtPassSettings::getPassStore (
    const QString & defaultValue = QVariant().toString() ) [static]
```

Definition at line 301 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



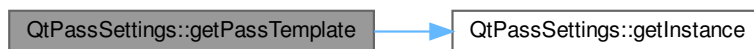
13.20.2.15 getPassTemplate()

```

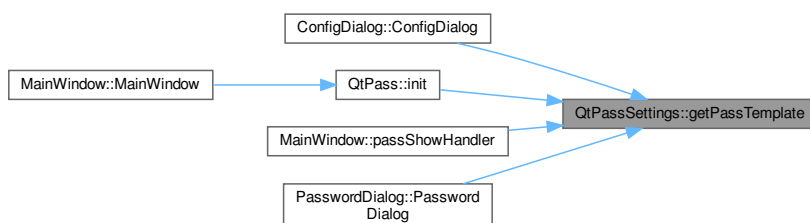
QString QtPassSettings::getPassTemplate (
    const QString & defaultValue = QVariant().toString() ) [static]
  
```

Definition at line 585 of file `qtpasssettings.cpp`.

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.16 getPasswordConfiguration()

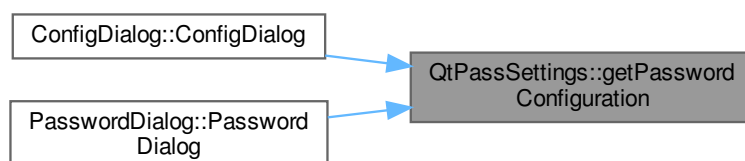
`PasswordConfiguration` `QtPassSettings::getPasswordConfiguration () [static]`

Definition at line 35 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.17 getPos()

```
QPoint QtPassSettings::getPos (
    const QPoint & defaultValue = QVariant().toPoint() ) [static]
```

Definition at line 146 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.18 getProfile()

```
QString QtPassSettings::getProfile (
    const QString & defaultValue = QVariant().toString() ) [static]
```

Definition at line 430 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.19 getProfiles()

```
QHash< QString, QHash< QString, QString > > QtPassSettings::getProfiles ( ) [static]
```

Definition at line 61 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.20 getPwgenExecutable()

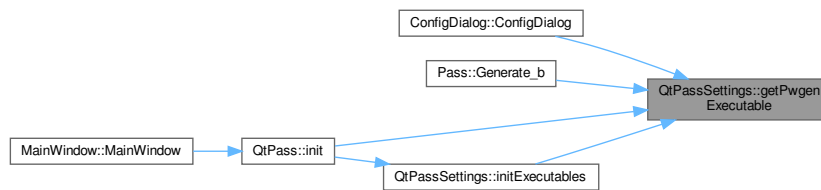
```
QString QtPassSettings::getPwgenExecutable (
    const QString & defaultValue = QVariant().toString() ) [static]
```

Definition at line 379 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.21 getPwgenExecutable()

```

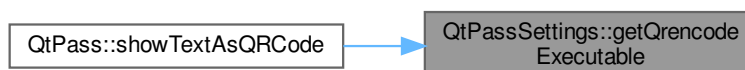
QString QtPassSettings::getPwgenExecutable (
    const QString & defaultValue = QVariant().toString() ) [static]
  
```

Definition at line 464 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:

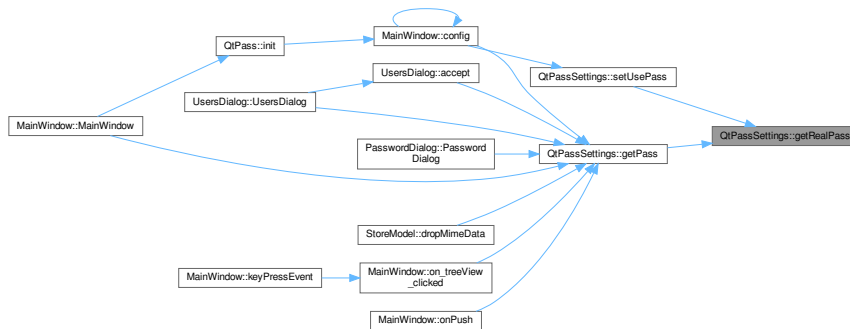


13.20.2.22 getRealPass()

```
RealPass * QtPassSettings::getRealPass ( ) [static]
```

Definition at line 613 of file [qtpasssettings.cpp](#).

Here is the caller graph for this function:



13.20.2.23 getSavestate()

```
QByteArray QtPassSettings::getSavestate (
    const QByteArray & defaultValue = QVariant().toByteArray() ) [static]
```

Definition at line 137 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.24 getSize()

```
QSize QtPassSettings::getSize (
    const QSize & defaultValue = QVariant().toSize() ) [static]
```

Definition at line 153 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.25 getVersion()

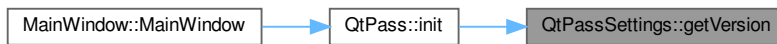
```
QString QtPassSettings::getVersion (
    const QString & defaultValue = QVariant().toString() ) [static]
```

Definition at line 119 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.26 `getWebDavPassword()`

```
QString QtPassSettings::getWebDavPassword (
    const QString & defaultValue = QVariant().toString() ) [static]
```

Definition at line 421 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.27 `getWebDavUrl()`

```
QString QtPassSettings::getWebDavUrl (
    const QString & defaultValue = QVariant().toString() ) [static]
```

Definition at line 403 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.28 getWebDavUser()

```
QString QtPassSettings::getWebDavUser (
    const QString & defaultValue = QVariant().toString() ) [static]
```

Definition at line 412 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:

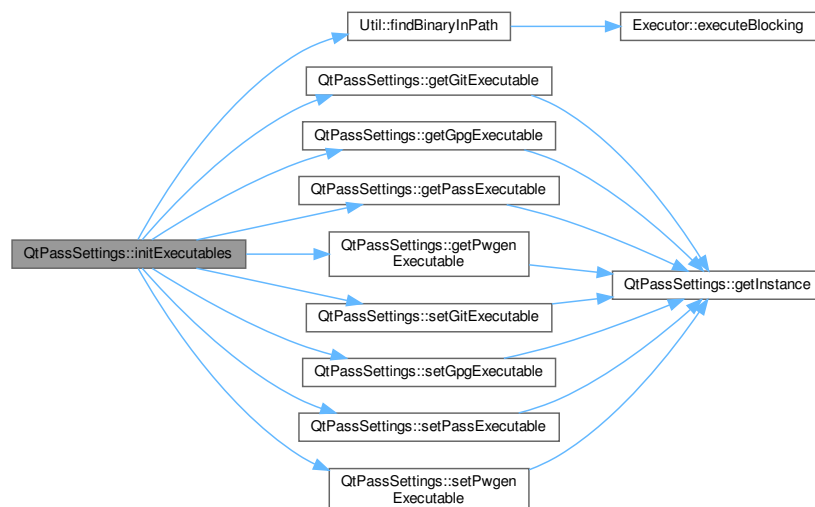


13.20.2.29 initExecutables()

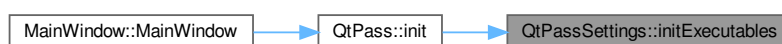
```
void QtPassSettings::initExecutables ( ) [static]
```

Definition at line 335 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.30 isAddGPGLd()

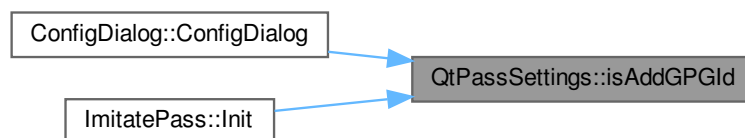
```
bool QtPassSettings::isAddGPGLd (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 292 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:

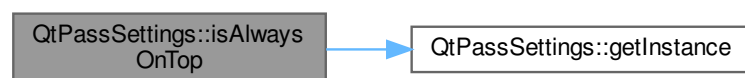


13.20.2.31 isAlwaysOnTop()

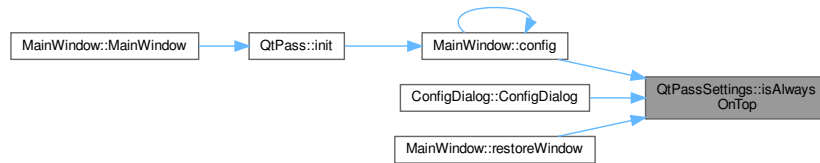
```
bool QtPassSettings::isAlwaysOnTop (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 558 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.32 isAutoPull()

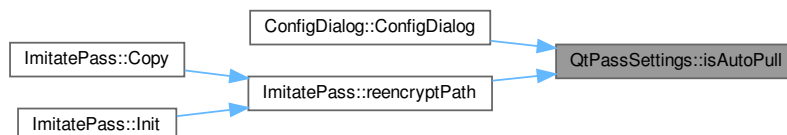
```
bool QtPassSettings::isAutoPull (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 567 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.33 isAutoPush()

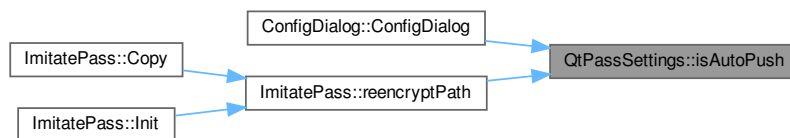
```
bool QtPassSettings::isAutoPush (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 576 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.34 isAvoidCapitals()

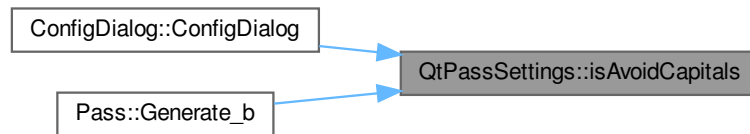
```
bool QtPassSettings::isAvoidCapitals (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 483 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.35 isAvoidNumbers()

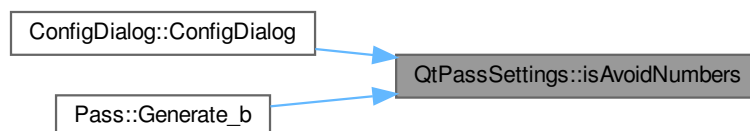
```
bool QtPassSettings::isAvoidNumbers (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 492 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.36 isDisplayAsIs()

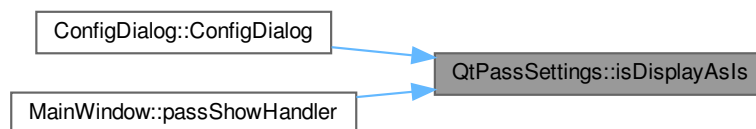
```
bool QtPassSettings::isDisplayAsIs (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 274 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.37 isHideContent()

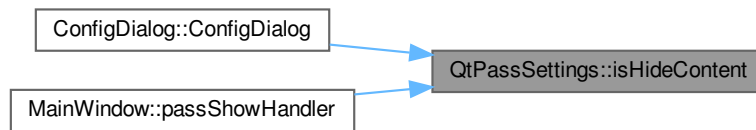
```
bool QtPassSettings::isHideContent (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 256 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:

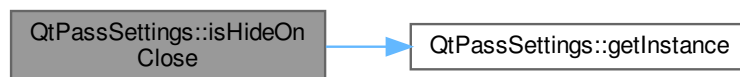


13.20.2.38 isHideOnClose()

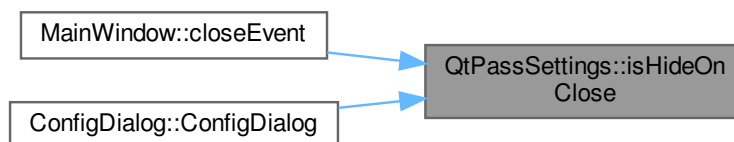
```
bool QtPassSettings::isHideOnClose (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 540 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.39 isHidePassword()

```
bool QtPassSettings::isHidePassword (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 247 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.40 isLessRandom()

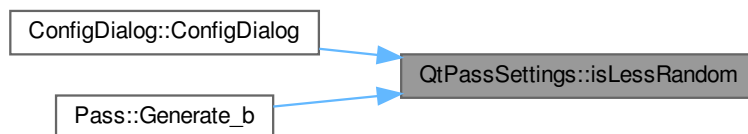
```
bool QtPassSettings::isLessRandom (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 501 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.41 isMaximized()

```
bool QtPassSettings::isMaximized (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 160 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:

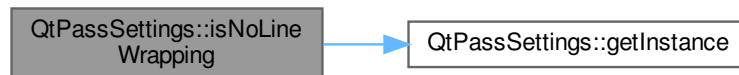


13.20.2.42 isNoLineWrapping()

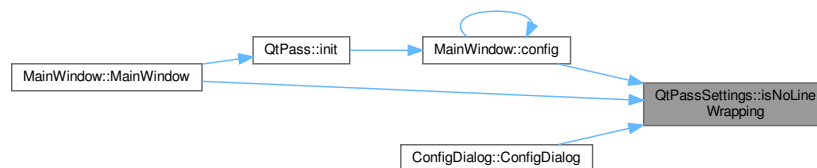
```
bool QtPassSettings::isNoLineWrapping (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 283 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.43 isStartMinimized()

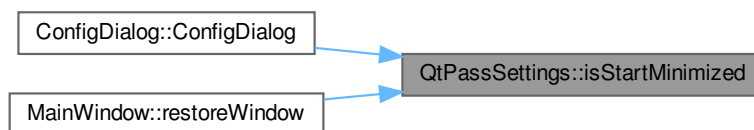
```
bool QtPassSettings::isStartMinimized (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 549 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.44 isTemplateAllFields()

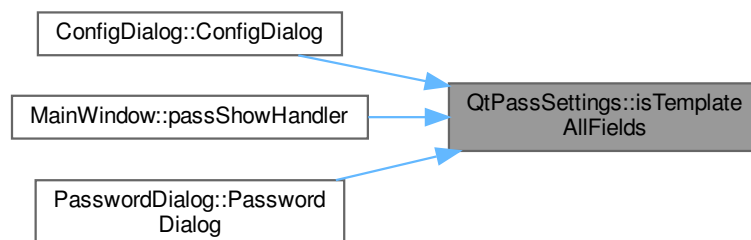
```
bool QtPassSettings::isTemplateAllFields (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 603 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.45 isUseAutoclear()

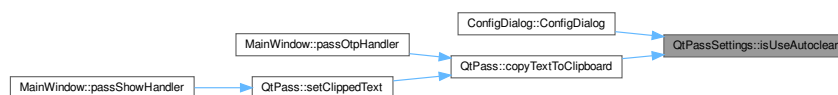
```
bool QtPassSettings::isUseAutoclear (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 207 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.46 isUseAutoclearPanel()

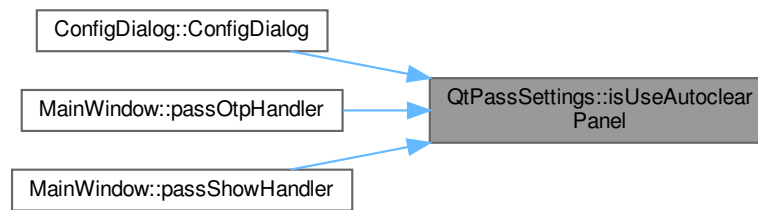
```
bool QtPassSettings::isUseAutoclearPanel (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 226 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.47 isUseGit()

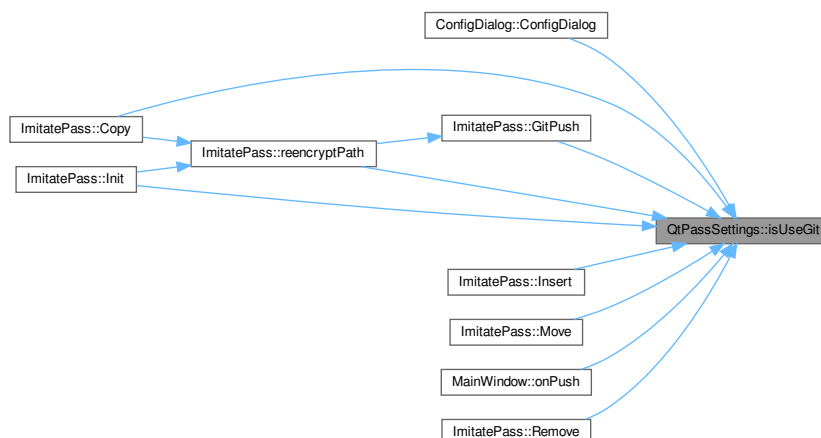
```
bool QtPassSettings::isUseGit (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 439 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.48 isUseMonospace()

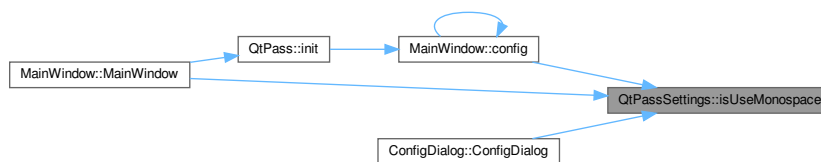
```
bool QtPassSettings::isUseMonospace (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 265 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.49 isUseOtp()

```
bool QtPassSettings::isUseOtp (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 446 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.50 isUsePass()

```

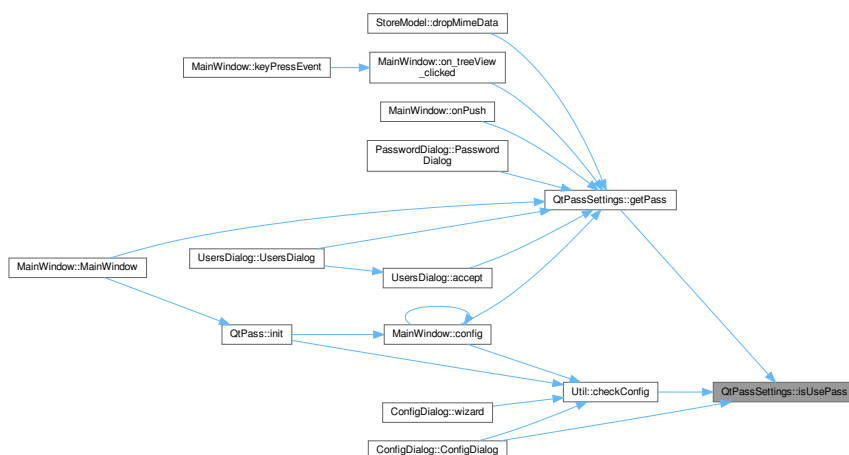
bool QtPassSettings::isUsePass (
    const bool & defaultValue = QVariant().toBool() ) [static]
  
```

Definition at line 169 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.51 isUsePwgen()

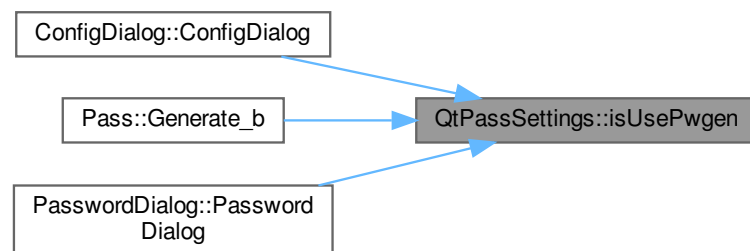
```
bool QtPassSettings::isUsePwgen (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 474 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.52 isUseQrencode()

```
bool QtPassSettings::isUseQrencode (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 454 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.53 isUseSelection()

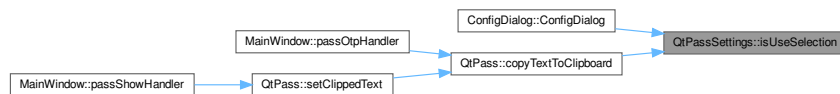
```
bool QtPassSettings::isUseSelection (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 198 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.54 isUseSymbols()

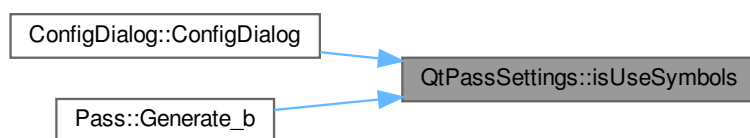
```
bool QtPassSettings::isUseSymbols (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 510 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.55 isUseTemplate()

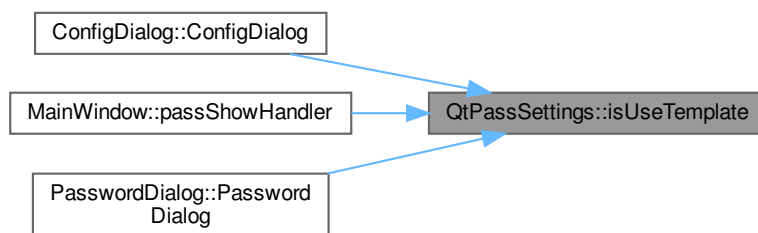
```
bool QtPassSettings::isUseTemplate (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 594 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.56 isUseTrayIcon()

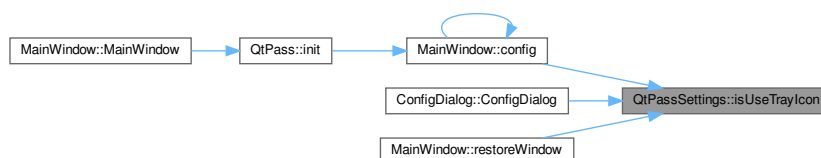
```
bool QtPassSettings::isUseTrayIcon (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 531 of file `qtpasssettings.cpp`.

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.57 isUseWebDav()

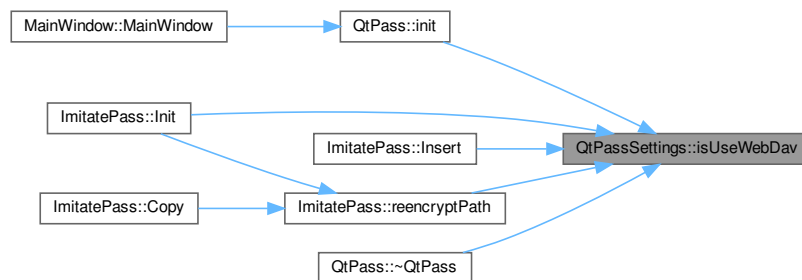
```
bool QtPassSettings::isUseWebDav (
    const bool & defaultValue = QVariant().toBool() ) [static]
```

Definition at line 394 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.58 setAddGPGId()

```
void QtPassSettings::setAddGPGId (
    const bool & addGPGId ) [static]
```

Definition at line 297 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:

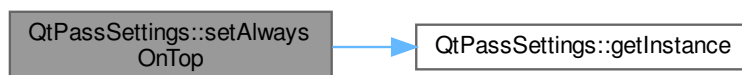


13.20.2.59 setAlwaysOnTop()

```
void QtPassSettings::setAlwaysOnTop (
    const bool & alwaysOnTop ) [static]
```

Definition at line 563 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.60 setAutoclearPanelSeconds()

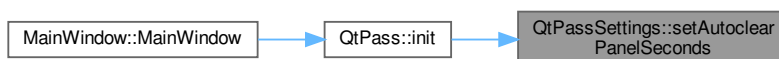
```
void QtPassSettings::setAutoclearPanelSeconds (
    const int & autoClearPanelSeconds ) [static]
```

Definition at line 241 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.61 setAutoclearSeconds()

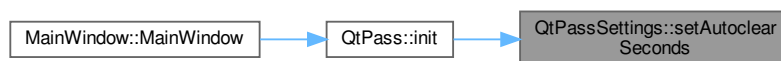
```
void QtPassSettings::setAutoclearSeconds (
    const int & autoClearSeconds ) [static]
```

Definition at line 221 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.62 setAutoPull()

```
void QtPassSettings::setAutoPull (
    const bool & autoPull ) [static]
```

Definition at line 572 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.63 setAutoPush()

```
void QtPassSettings::setAutoPush (
    const bool & autoPush ) [static]
```

Definition at line 581 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:

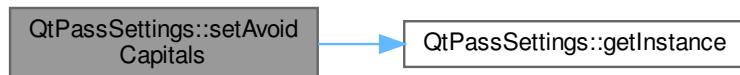


13.20.2.64 setAvoidCapitals()

```
void QtPassSettings::setAvoidCapitals (
    const bool & avoidCapitals ) [static]
```

Definition at line 488 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:

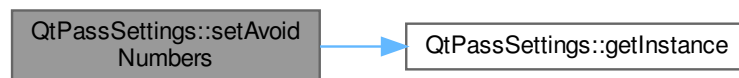


13.20.2.65 setAvoidNumbers()

```
void QtPassSettings::setAvoidNumbers (
    const bool & avoidNumbers ) [static]
```

Definition at line 497 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:

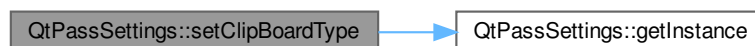


13.20.2.66 `setClipboardType()`

```
void QtPassSettings::setClipboardType (
    const int & clipboardType ) [static]
```

Definition at line 194 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.67 `setDisplayAsIs()`

```
void QtPassSettings::setDisplayAsIs (
    const bool & displayAsIs ) [static]
```

Definition at line 279 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.68 setGeometry()

```
void QtPassSettings::setGeometry (
    const QByteArray & geometry ) [static]
```

Definition at line 133 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:

**13.20.2.69 setGitExecutable()**

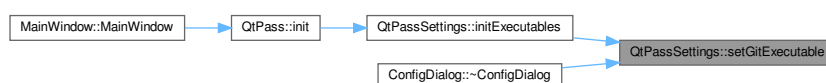
```
void QtPassSettings::setGitExecutable (
    const QString & gitExecutable ) [static]
```

Definition at line 366 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.70 setGpgExecutable()

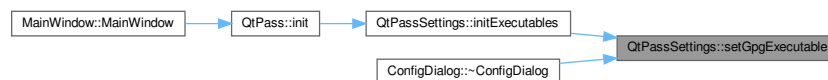
```
void QtPassSettings::setGpgExecutable (
    const QString & gpgExecutable ) [static]
```

Definition at line 375 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.71 setHideContent()

```
void QtPassSettings::setHideContent (
    const bool & hideContent ) [static]
```

Definition at line 261 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.72 setHideOnClose()

```
void QtPassSettings::setHideOnClose (
    const bool & hideOnClose ) [static]
```

Definition at line 545 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:

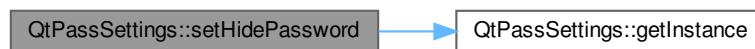


13.20.2.73 setHidePassword()

```
void QtPassSettings::setHidePassword (
    const bool & hidePassword ) [static]
```

Definition at line 252 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.74 setLessRandom()

```
void QtPassSettings::setLessRandom (
    const bool & lessRandom ) [static]
```

Definition at line 506 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.75 setMaximized()

```
void QtPassSettings::setMaximized (
    const bool & maximized ) [static]
```

Definition at line 165 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:

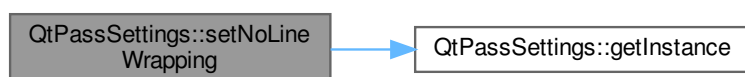


13.20.2.76 setNoLineWrapping()

```
void QtPassSettings::setNoLineWrapping (
    const bool & noLineWrapping ) [static]
```

Definition at line 288 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:

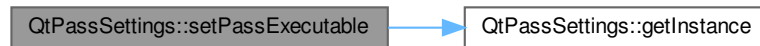


13.20.2.77 setPassExecutable()

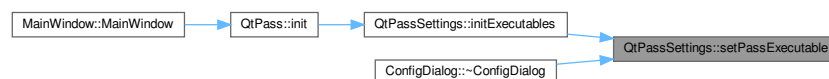
```
void QtPassSettings::setPassExecutable (
    const QString & passExecutable ) [static]
```

Definition at line 357 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:

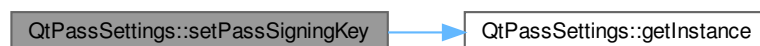


13.20.2.78 setPassSigningKey()

```
void QtPassSettings::setPassSigningKey (
    const QString & passSigningKey ) [static]
```

Definition at line 331 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.79 setPassStore()

```
void QtPassSettings::setPassStore (
    const QString & passStore ) [static]
```

Definition at line 322 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.80 setPassTemplate()

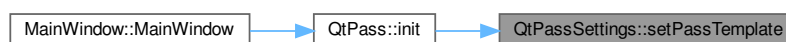
```
void QtPassSettings::setPassTemplate (
    const QString & passTemplate ) [static]
```

Definition at line 590 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.81 setPasswordChars()

```
void QtPassSettings::setPasswordChars (
    const QString & passwordChars ) [static]
```

Definition at line 527 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.82 setPasswordCharsselection()

```
void QtPassSettings::setPasswordCharsselection (
    const int & passwordCharsselection ) [static]
```

Definition at line 522 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.83 setPasswordConfiguration()

```
void QtPassSettings::setPasswordConfiguration (
    const PasswordConfiguration & config ) [static]
```

Definition at line 52 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.84 setPasswordLength()

```
void QtPassSettings::setPasswordLength (  
    const int & passwordLength ) [static]
```

Definition at line 519 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.85 setPos()

```
void QtPassSettings::setPos (  
    const QPoint & pos ) [static]
```

Definition at line 149 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.86 setProfile()

```
void QtPassSettings::setProfile (
    const QString & profile ) [static]
```

Definition at line 435 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.87 setProfiles()

```
void QtPassSettings::setProfiles (
    const QHash< QString, QHash< QString, QString > > & profiles ) [static]
```

Definition at line 92 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.88 setPwgenExecutable()

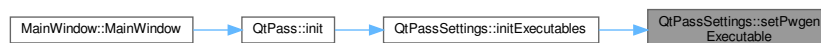
```
void QtPassSettings::setPwgenExecutable (
    const QString & pwgenExecutable ) [static]
```

Definition at line 384 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.89 setQrencodeExecutable()

```
void QtPassSettings::setQrencodeExecutable (
    const QString & qrencodeExecutable ) [static]
```

Definition at line 469 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.90 setSavestate()

```
void QtPassSettings::setSavestate (
    const QByteArray & saveState ) [static]
```

Definition at line 142 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.91 setSize()

```
void QtPassSettings::setSize (
    const QSize & size ) [static]
```

Definition at line 156 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:

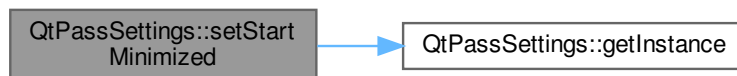


13.20.2.92 setStartMinimized()

```
void QtPassSettings::setStartMinimized (
    const bool & startMinimized ) [static]
```

Definition at line 554 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.93 setTemplateAllFields()

```
void QtPassSettings::setTemplateAllFields (
    const bool & templateAllFields ) [static]
```

Definition at line 608 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.94 `setUseAutoclear()`

```
void QtPassSettings::setUseAutoclear (
    const bool & useAutoclear ) [static]
```

Definition at line 212 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:

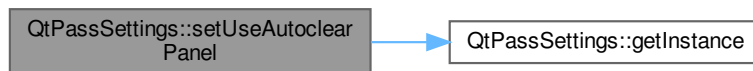


13.20.2.95 `setUseAutoclearPanel()`

```
void QtPassSettings::setUseAutoclearPanel (
    const bool & useAutoclearPanel ) [static]
```

Definition at line 231 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.96 `setUseGit()`

```
void QtPassSettings::setUseGit (
    const bool & useGit ) [static]
```

Definition at line 442 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.97 setUseMonospace()

```
void QtPassSettings::setUseMonospace (
    const bool & useMonospace ) [static]
```

Definition at line 270 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.98 setUseOtp()

```
void QtPassSettings::setUseOtp (
    const bool & useOtp ) [static]
```

Definition at line 450 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:

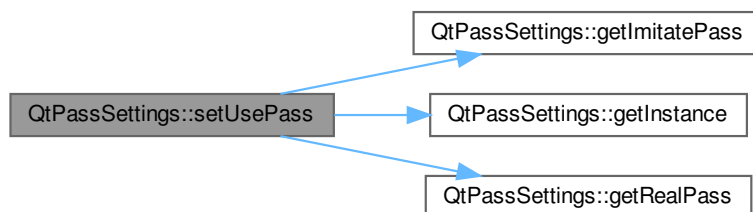


13.20.2.99 setUsePass()

```
void QtPassSettings::setUsePass (
    const bool & usePass ) [static]
```

Definition at line 174 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.100 setUsePwgen()

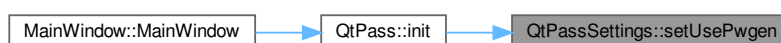
```
void QtPassSettings::setUsePwgen (
    const bool & usePwgen ) [static]
```

Definition at line 479 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.20.2.101 setUseQrcode()

```
void QtPassSettings::setUseQrcode (
    const bool & useQrcode ) [static]
```

Definition at line 460 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:

**13.20.2.102 setUseSelection()**

```
void QtPassSettings::setUseSelection (
    const bool & useSelection ) [static]
```

Definition at line 203 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:

**13.20.2.103 setUseSymbols()**

```
void QtPassSettings::setUseSymbols (
    const bool & useSymbols ) [static]
```

Definition at line 515 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.104 setUseTemplate()

```
void QtPassSettings::setUseTemplate (
    const bool & useTemplate ) [static]
```

Definition at line 599 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.105 setUseTrayIcon()

```
void QtPassSettings::setUseTrayIcon (
    const bool & useTrayIcon ) [static]
```

Definition at line 536 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.106 setUseWebDav()

```
void QtPassSettings::setUseWebDav (
    const bool & useWebDav ) [static]
```

Definition at line 399 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.107 setVersion()

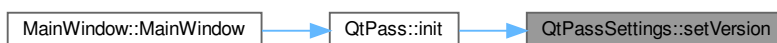
```
void QtPassSettings::setVersion (
    const QString & version ) [static]
```

Definition at line 124 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:

**13.20.2.108 setWebDavPassword()**

```
void QtPassSettings::setWebDavPassword (
    const QString & webDavPassword ) [static]
```

Definition at line 426 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.109 setWebDavUrl()

```
void QtPassSettings::setWebDavUrl (
    const QString & webDavUrl ) [static]
```

Definition at line 408 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



13.20.2.110 setWebDavUser()

```
void QtPassSettings::setWebDavUser (
    const QString & webDavUser ) [static]
```

Definition at line 417 of file [qtpasssettings.cpp](#).

Here is the call graph for this function:



The documentation for this class was generated from the following files:

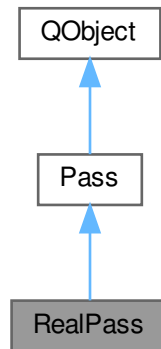
- [src/qtpasssettings.h](#)
- [src/qtpasssettings.cpp](#)

13.21 RealPass Class Reference

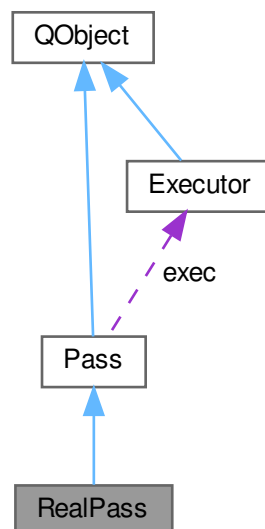
Wrapper for executing pass to handle the password-store.

```
#include <realpass.h>
```

Inheritance diagram for RealPass:



Collaboration diagram for RealPass:



Public Member Functions

- [RealPass](#) ()
- virtual [~RealPass](#) ()
- virtual void [GitInit](#) () Q_DECL_OVERRIDE
RealPass::GitInit pass git init wrapper.
- virtual void [GitPull](#) () Q_DECL_OVERRIDE
RealPass::GitPull pass git pull wrapper.
- virtual void [GitPull_b](#) () Q_DECL_OVERRIDE
RealPass::GitInit pass git pull wrapper which blocks until process finishes.
- virtual void [GitPush](#) () Q_DECL_OVERRIDE
RealPass::GitPush pass git push wrapper.
- virtual void [Show](#) (QString file) Q_DECL_OVERRIDE
RealPass::Show pass show.
- virtual void [OtpGenerate](#) (QString file) Q_DECL_OVERRIDE
RealPass::OtpGenerate pass otp.
- virtual void [Insert](#) (QString file, QString newValue, bool overwrite=false) Q_DECL_OVERRIDE
RealPass::Insert pass insert.
- virtual void [Remove](#) (QString file, bool isDir=false) Q_DECL_OVERRIDE
RealPass::Remove pass remove wrapper.
- virtual void [Init](#) (QString path, const QList< [UserInfo](#) > &users) Q_DECL_OVERRIDE
RealPass::Init initialize pass repository.
- void [Move](#) (const QString src, const QString dest, const bool force=false) Q_DECL_OVERRIDE
RealPass::Move move a file (or folder)
- void [Copy](#) (const QString src, const QString dest, const bool force=false) Q_DECL_OVERRIDE
RealPass::Copy copy a file (or folder)

Public Member Functions inherited from [Pass](#)

- [Pass](#) ()
Pass::Pass wrapper for using either pass or the pass imitation.
- void [init](#) ()
- virtual [~Pass](#) ()
- virtual void [GitInit](#) ()=0
- virtual void [GitPull](#) ()=0
- virtual void [GitPull_b](#) ()=0
- virtual void [GitPush](#) ()=0
- virtual void [Show](#) (QString file)=0
- virtual void [OtpGenerate](#) (QString file)=0
- virtual void [Insert](#) (QString file, QString value, bool force)=0
- virtual void [Remove](#) (QString file, bool isDir)=0
- virtual void [Move](#) (const QString srcDir, const QString dest, const bool force=false)=0
- virtual void [Copy](#) (const QString srcDir, const QString dest, const bool force=false)=0
- virtual void [Init](#) (QString path, const QList< [UserInfo](#) > &users)=0
- virtual QString [Generate_b](#) (unsigned int length, const QString &charset)
Pass::Generate use either pwgen or internal password generator.
- void [GenerateGPGKeys](#) (QString batch)
Pass::GenerateGPGKeys internal gpg keypair generator . .
- QList< [UserInfo](#) > [listKeys](#) (QStringList keystings, bool secret=false)
Pass::listKeys list users.
- QList< [UserInfo](#) > [listKeys](#) (QString keystring="", bool secret=false)
Pass::listKeys list users.
- void [updateEnv](#) ()
Pass::updateEnv update the execution environment (used when switching profiles)

Additional Inherited Members

Signals inherited from [Pass](#)

- void [error](#) (QProcess::ProcessError)
- void [startingExecuteWrapper](#) ()
- void [statusMsg](#) (QString, int)
- void [critical](#) (QString, QString)
- void [processErrorExit](#) (int exitCode, const QString &err)
- void [finishedAny](#) (const QString &, const QString &)
- void [finishedGitInit](#) (const QString &, const QString &)
- void [finishedGitPull](#) (const QString &, const QString &)
- void [finishedGitPush](#) (const QString &, const QString &)
- void [finishedShow](#) (const QString &)
- void [finishedOtpGenerate](#) (const QString &)
- void [finishedInsert](#) (const QString &, const QString &)
- void [finishedRemove](#) (const QString &, const QString &)
- void [finishedInit](#) (const QString &, const QString &)
- void [finishedMove](#) (const QString &, const QString &)
- void [finishedCopy](#) (const QString &, const QString &)
- void [finishedGenerate](#) (const QString &, const QString &)
- void [finishedGenerateGPGKeys](#) (const QString &, const QString &)

Static Public Member Functions inherited from [Pass](#)

- static QString [getGpgIdPath](#) (QString for_file)
[Pass::getGpgIdPath](#) return gpgid file path for some file (folder).
- static QStringList [getRecipientList](#) (QString for_file)
[Pass::getRecipientList](#) return list of gpg-id's to encrypt for.
- static QStringList [getRecipientString](#) (QString for_file, QString separator=" ", int *count=NULL)
[Pass::getRecipientString](#) formatted string for use with GPG.

Protected Types inherited from [Pass](#)

- typedef [Enums::PROCESS](#) PROCESS

Protected Slots inherited from [Pass](#)

- virtual void [finished](#) (int id, int exitCode, const QString &out, const QString &err)
[Pass::processFinished](#) reemits specific signal based on what process has finished.

Protected Member Functions inherited from [Pass](#)

- void [executeWrapper](#) (PROCESS id, const QString &app, const QStringList &args, bool readStdout=true, bool readStderr=true)
- QString [generateRandomPassword](#) (const QString &charset, unsigned int length)
- quint32 [boundedRandom](#) (quint32 bound)
- virtual void [executeWrapper](#) (PROCESS id, const QString &app, const QStringList &args, QString input, bool readStdout=true, bool readStderr=true)

Protected Attributes inherited from [Pass](#)

- [Executor](#) `exec`

13.21.1 Detailed Description

Wrapper for executing pass to handle the password-store.

Definition at line 10 of file [realpass.h](#).

13.21.2 Constructor & Destructor Documentation

13.21.2.1 RealPass()

```
RealPass::RealPass ( ) [default]
```

13.21.2.2 ~RealPass()

```
virtual RealPass::~~RealPass ( ) [inline], [virtual]
```

Definition at line 17 of file [realpass.h](#).

13.21.3 Member Function Documentation

13.21.3.1 Copy()

```
void RealPass::Copy (
    const QString src,
    const QString dest,
    const bool force = false ) [virtual]
```

[RealPass::Copy](#) copy a file (or folder)

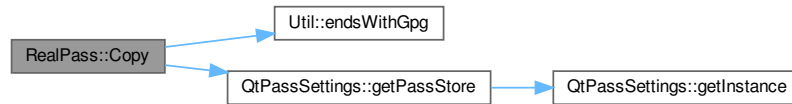
Parameters

<i>src</i>	source file or folder
<i>dest</i>	destination file or folder
<i>force</i>	overwrite

Implements [Pass](#).

Definition at line 143 of file [realpass.cpp](#).

Here is the call graph for this function:



13.21.3.2 GitInit()

```
void RealPass::GitInit ( ) [virtual]
```

[RealPass::GitInit](#) pass git init wrapper.

Implements [Pass](#).

Definition at line 17 of file [realpass.cpp](#).

13.21.3.3 GitPull()

```
void RealPass::GitPull ( ) [virtual]
```

[RealPass::GitPull](#) pass git pull wrapper.

Implements [Pass](#).

Definition at line 30 of file [realpass.cpp](#).

13.21.3.4 GitPull_b()

```
void RealPass::GitPull_b ( ) [virtual]
```

[RealPass::GitInit](#) pass git pull wrapper which blocks until process finishes.

Implements [Pass](#).

Definition at line 23 of file [realpass.cpp](#).

Here is the call graph for this function:



13.21.3.5 GitPush()

```
void RealPass::GitPush ( ) [virtual]
```

[RealPass::GitPush](#) pass git push wrapper.

Implements [Pass](#).

Definition at line 35 of file [realpass.cpp](#).

13.21.3.6 Init()

```
void RealPass::Init (
    QString path,
    const QList< UserInfo > & users ) [virtual]
```

[RealPass::Init](#) initialize pass repository.

Parameters

<i>path</i>	Absolute path to new password-store
<i>users</i>	list of users with ability to decrypt new password-store

Implements [Pass](#).

Definition at line 82 of file [realpass.cpp](#).

Here is the call graph for this function:



13.21.3.7 Insert()

```
void RealPass::Insert (
    QString file,
    QString newValue,
    bool overwrite = false ) [virtual]
```

[RealPass::Insert](#) pass insert.

Implements [Pass](#).

Definition at line 61 of file [realpass.cpp](#).

13.21.3.8 Move()

```
void RealPass::Move (
    const QString src,
    const QString dest,
    const bool force = false ) [virtual]
```

[RealPass::Move](#) move a file (or folder)

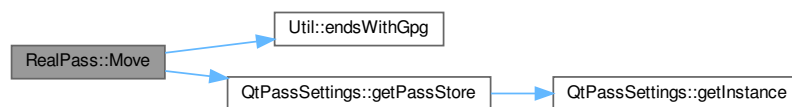
Parameters

<i>src</i>	source file or folder
<i>dest</i>	destination file or folder
<i>force</i>	overwrite

Implements [Pass](#).

Definition at line 102 of file [realpass.cpp](#).

Here is the call graph for this function:



13.21.3.9 OtpGenerate()

```
void RealPass::OtpGenerate (
    QString file ) [virtual]
```

[RealPass::OtpGenerate](#) pass otp.

Parameters

<i>file</i>	file containig OTP uri
-------------	------------------------

Implements [Pass](#).

Definition at line 54 of file [realpass.cpp](#).

13.21.3.10 Remove()

```
void RealPass::Remove (
    QString file,
    bool isDir = false ) [virtual]
```

[RealPass::Remove](#) pass remove wrapper.

Implements [Pass](#).

Definition at line 72 of file [realpass.cpp](#).

13.21.3.11 Show()

```
void RealPass::Show (
    QString file ) [virtual]
```

[RealPass::Show](#) pass show.

Parameters

<i>file</i>	file to decrypt
-------------	-----------------

Returns

if block is set, returns exit status of internal decryption process otherwise returns `QProcess::NormalExit`

Implements [Pass](#).

Definition at line 46 of file [realpass.cpp](#).

The documentation for this class was generated from the following files:

- [src/realpass.h](#)
- [src/realpass.cpp](#)

13.22 SettingsConstants Class Reference

Table for the naming of configuration items.

```
#include <settingsconstants.h>
```

Static Public Attributes

- static const QString [version](#) = "version"
- static const QString [groupMainwindow](#) = "mainwindow"
- static const QString [geometry](#)
- static const QString [savestate](#)
- static const QString [pos](#)
- static const QString [size](#)
- static const QString [splitterLeft](#)
- static const QString [splitterRight](#)
- static const QString [maximized](#)
- static const QString [usePass](#) = "usePass"
- static const QString [useAutoclear](#) = "useAutoclear"
- static const QString [useSelection](#) = "useSelection"
- static const QString [autoclearSeconds](#) = "autoclearSeconds"
- static const QString [useAutoclearPanel](#) = "useAutoclearPanel"
- static const QString [autoclearPanelSeconds](#)
- static const QString [hidePassword](#) = "hidePassword"
- static const QString [hideContent](#) = "hideContent"
- static const QString [useMonospace](#) = "useMonospace"
- static const QString [displayAsIs](#) = "displayAsIs"
- static const QString [noLineWrapping](#) = "noLineWrapping"
- static const QString [addGPGId](#) = "addGPGId"
- static const QString [passStore](#) = "passStore"
- static const QString [passSigningKey](#) = "passSigningKey"
- static const QString [passExecutable](#) = "passExecutable"
- static const QString [gitExecutable](#) = "gitExecutable"
- static const QString [gpgExecutable](#) = "gpgExecutable"
- static const QString [pwgenExecutable](#) = "pwgenExecutable"
- static const QString [gpgHome](#) = "gpgHome"
- static const QString [useWebDav](#) = "useWebDav"
- static const QString [webDavUrl](#) = "webDavUrl"
- static const QString [webDavUser](#) = "webDavUser"
- static const QString [webDavPassword](#) = "webDavPassword"
- static const QString [profile](#) = "profile"
- static const QString [groupProfiles](#) = "profiles"
- static const QString [useGit](#) = "useGit"
- static const QString [useOtp](#) = "useOtp"
- static const QString [useQrencode](#) = "useQrencode"
- static const QString [qrencodeExecutable](#) = "qrencodeExecutable"
- static const QString [useClipboard](#) = "useClipboard"
- static const QString [usePwgen](#) = "usePwgen"
- static const QString [avoidCapitals](#) = "avoidCapitals"
- static const QString [avoidNumbers](#) = "avoidNumbers"
- static const QString [lessRandom](#) = "lessRandom"
- static const QString [useSymbols](#) = "useSymbols"
- static const QString [passwordLength](#) = "passwordLength"
- static const QString [passwordCharsselection](#)
- static const QString [passwordChars](#) = "passwordChars"
- static const QString [useTrayIcon](#) = "useTrayIcon"
- static const QString [hideOnClose](#) = "hideOnClose"
- static const QString [startMinimized](#) = "startMinimized"
- static const QString [alwaysOnTop](#) = "alwaysOnTop"
- static const QString [autoPull](#) = "autoPull"
- static const QString [autoPush](#) = "autoPush"
- static const QString [passTemplate](#) = "passTemplate"
- static const QString [useTemplate](#) = "useTemplate"
- static const QString [templateAllFields](#) = "templateAllFields"
- static const QString [clipBoardType](#) = "clipBoardType"

13.22.1 Detailed Description

Table for the naming of configuration items.

Definition at line 10 of file [settingsconstants.h](#).

13.22.2 Member Data Documentation

13.22.2.1 addGPGId

```
const QString SettingsConstants::addGPGId = "addGPGId" [static]
```

Definition at line 32 of file [settingsconstants.h](#).

13.22.2.2 alwaysOnTop

```
const QString SettingsConstants::alwaysOnTop = "alwaysOnTop" [static]
```

Definition at line 62 of file [settingsconstants.h](#).

13.22.2.3 autoclearPanelSeconds

```
const QString SettingsConstants::autoclearPanelSeconds [static]
```

Initial value:

```
=  
    "autoclearPanelSeconds"
```

Definition at line 26 of file [settingsconstants.h](#).

13.22.2.4 autoclearSeconds

```
const QString SettingsConstants::autoclearSeconds = "autoclearSeconds" [static]
```

Definition at line 24 of file [settingsconstants.h](#).

13.22.2.5 autoPull

```
const QString SettingsConstants::autoPull = "autoPull" [static]
```

Definition at line 63 of file [settingsconstants.h](#).

13.22.2.6 autoPush

```
const QString SettingsConstants::autoPush = "autoPush" [static]
```

Definition at line 64 of file [settingsconstants.h](#).

13.22.2.7 avoidCapitals

```
const QString SettingsConstants::avoidCapitals = "avoidCapitals" [static]
```

Definition at line 52 of file [settingsconstants.h](#).

13.22.2.8 avoidNumbers

```
const QString SettingsConstants::avoidNumbers = "avoidNumbers" [static]
```

Definition at line 53 of file [settingsconstants.h](#).

13.22.2.9 clipBoardType

```
const QString SettingsConstants::clipBoardType = "clipBoardType" [static]
```

Definition at line 68 of file [settingsconstants.h](#).

13.22.2.10 displayAsIs

```
const QString SettingsConstants::displayAsIs = "displayAsIs" [static]
```

Definition at line 30 of file [settingsconstants.h](#).

13.22.2.11 geometry

```
const QString SettingsConstants::geometry [static]
```

Initial value:

```
=  
    SettingsConstants::groupMainwindow + "/geometry"
```

Definition at line 14 of file [settingsconstants.h](#).

13.22.2.12 gitExecutable

```
const QString SettingsConstants::gitExecutable = "gitExecutable" [static]
```

Definition at line 36 of file [settingsconstants.h](#).

13.22.2.13 gpgExecutable

```
const QString SettingsConstants::gpgExecutable = "gpgExecutable" [static]
```

Definition at line 37 of file [settingsconstants.h](#).

13.22.2.14 gpgHome

```
const QString SettingsConstants::gpgHome = "gpgHome" [static]
```

Definition at line 39 of file [settingsconstants.h](#).

13.22.2.15 groupMainwindow

```
const QString SettingsConstants::groupMainwindow = "mainwindow" [static]
```

Definition at line 13 of file [settingsconstants.h](#).

13.22.2.16 groupProfiles

```
const QString SettingsConstants::groupProfiles = "profiles" [static]
```

Definition at line 45 of file [settingsconstants.h](#).

13.22.2.17 hideContent

```
const QString SettingsConstants::hideContent = "hideContent" [static]
```

Definition at line 28 of file [settingsconstants.h](#).

13.22.2.18 hideOnClose

```
const QString SettingsConstants::hideOnClose = "hideOnClose" [static]
```

Definition at line 60 of file [settingsconstants.h](#).

13.22.2.19 hidePassword

```
const QString SettingsConstants::hidePassword = "hidePassword" [static]
```

Definition at line 27 of file [settingsconstants.h](#).

13.22.2.20 lessRandom

```
const QString SettingsConstants::lessRandom = "lessRandom" [static]
```

Definition at line 54 of file [settingsconstants.h](#).

13.22.2.21 maximized

```
const QString SettingsConstants::maximized [static]
```

Initial value:

```
=  
    SettingsConstants::groupMainwindow + "/maximized"
```

Definition at line 20 of file [settingsconstants.h](#).

13.22.2.22 noLineWrapping

```
const QString SettingsConstants::noLineWrapping = "noLineWrapping" [static]
```

Definition at line 31 of file [settingsconstants.h](#).

13.22.2.23 passExecutable

```
const QString SettingsConstants::passExecutable = "passExecutable" [static]
```

Definition at line 35 of file [settingsconstants.h](#).

13.22.2.24 passSigningKey

```
const QString SettingsConstants::passSigningKey = "passSigningKey" [static]
```

Definition at line 34 of file [settingsconstants.h](#).

13.22.2.25 passStore

```
const QString SettingsConstants::passStore = "passStore" [static]
```

Definition at line 33 of file [settingsconstants.h](#).

13.22.2.26 passTemplate

```
const QString SettingsConstants::passTemplate = "passTemplate" [static]
```

Definition at line 65 of file [settingsconstants.h](#).

13.22.2.27 passwordChars

```
const QString SettingsConstants::passwordChars = "passwordChars" [static]
```

Definition at line 58 of file [settingsconstants.h](#).

13.22.2.28 passwordCharsselection

```
const QString SettingsConstants::passwordCharsselection [static]
```

Initial value:

```
=  
    "passwordCharsselection"
```

Definition at line 57 of file [settingsconstants.h](#).

13.22.2.29 passwordLength

```
const QString SettingsConstants::passwordLength = "passwordLength" [static]
```

Definition at line 56 of file [settingsconstants.h](#).

13.22.2.30 pos

```
const QString SettingsConstants::pos [static]
```

Initial value:

```
=  
    SettingsConstants::groupMainwindow + "/pos"
```

Definition at line 16 of file [settingsconstants.h](#).

13.22.2.31 profile

```
const QString SettingsConstants::profile = "profile" [static]
```

Definition at line 44 of file [settingsconstants.h](#).

13.22.2.32 pwgenExecutable

```
const QString SettingsConstants::pwgenExecutable = "pwgenExecutable" [static]
```

Definition at line 38 of file [settingsconstants.h](#).

13.22.2.33 qrencodeExecutable

```
const QString SettingsConstants::qrencodeExecutable = "qrencodeExecutable" [static]
```

Definition at line 49 of file [settingsconstants.h](#).

13.22.2.34 savestate

```
const QString SettingsConstants::savestate [static]
```

Initial value:

```
=  
    SettingsConstants::groupMainwindow + "/savestate"
```

Definition at line 15 of file [settingsconstants.h](#).

13.22.2.35 size

```
const QString SettingsConstants::size [static]
```

Initial value:

```
=  
    SettingsConstants::groupMainwindow + "/size"
```

Definition at line 17 of file [settingsconstants.h](#).

13.22.2.36 splitterLeft

```
const QString SettingsConstants::splitterLeft [static]
```

Initial value:

```
=  
    SettingsConstants::groupMainwindow + "/splitterLeft"
```

Definition at line 18 of file [settingsconstants.h](#).

13.22.2.37 splitterRight

```
const QString SettingsConstants::splitterRight [static]
```

Initial value:

```
=  
    SettingsConstants::groupMainwindow + "/splitterRight"
```

Definition at line 19 of file [settingsconstants.h](#).

13.22.2.38 startMinimized

```
const QString SettingsConstants::startMinimized = "startMinimized" [static]
```

Definition at line 61 of file [settingsconstants.h](#).

13.22.2.39 templateAllFields

```
const QString SettingsConstants::templateAllFields = "templateAllFields" [static]
```

Definition at line 67 of file [settingsconstants.h](#).

13.22.2.40 useAutoclear

```
const QString SettingsConstants::useAutoclear = "useAutoclear" [static]
```

Definition at line 22 of file [settingsconstants.h](#).

13.22.2.41 useAutoclearPanel

```
const QString SettingsConstants::useAutoclearPanel = "useAutoclearPanel" [static]
```

Definition at line 25 of file [settingsconstants.h](#).

13.22.2.42 useClipboard

```
const QString SettingsConstants::useClipboard = "useClipboard" [static]
```

Definition at line 50 of file [settingsconstants.h](#).

13.22.2.43 useGit

```
const QString SettingsConstants::useGit = "useGit" [static]
```

Definition at line 46 of file [settingsconstants.h](#).

13.22.2.44 useMonospace

```
const QString SettingsConstants::useMonospace = "useMonospace" [static]
```

Definition at line 29 of file [settingsconstants.h](#).

13.22.2.45 useOtp

```
const QString SettingsConstants::useOtp = "useOtp" [static]
```

Definition at line 47 of file [settingsconstants.h](#).

13.22.2.46 usePass

```
const QString SettingsConstants::usePass = "usePass" [static]
```

Definition at line 21 of file [settingsconstants.h](#).

13.22.2.47 usePwgen

```
const QString SettingsConstants::usePwgen = "usePwgen" [static]
```

Definition at line 51 of file [settingsconstants.h](#).

13.22.2.48 useQrcode

```
const QString SettingsConstants::useQrcode = "useQrcode" [static]
```

Definition at line 48 of file [settingsconstants.h](#).

13.22.2.49 useSelection

```
const QString SettingsConstants::useSelection = "useSelection" [static]
```

Definition at line 23 of file [settingsconstants.h](#).

13.22.2.50 useSymbols

```
const QString SettingsConstants::useSymbols = "useSymbols" [static]
```

Definition at line 55 of file [settingsconstants.h](#).

13.22.2.51 useTemplate

```
const QString SettingsConstants::useTemplate = "useTemplate" [static]
```

Definition at line 66 of file [settingsconstants.h](#).

13.22.2.52 useTrayIcon

```
const QString SettingsConstants::useTrayIcon = "useTrayIcon" [static]
```

Definition at line 59 of file [settingsconstants.h](#).

13.22.2.53 useWebDav

```
const QString SettingsConstants::useWebDav = "useWebDav" [static]
```

Definition at line 40 of file [settingsconstants.h](#).

13.22.2.54 version

```
const QString SettingsConstants::version = "version" [static]
```

Definition at line 12 of file [settingsconstants.h](#).

13.22.2.55 webDavPassword

```
const QString SettingsConstants::webDavPassword = "webDavPassword" [static]
```

Definition at line 43 of file [settingsconstants.h](#).

13.22.2.56 webDavUrl

```
const QString SettingsConstants::webDavUrl = "webDavUrl" [static]
```

Definition at line 41 of file [settingsconstants.h](#).

13.22.2.57 webDavUser

```
const QString SettingsConstants::webDavUser = "webDavUser" [static]
```

Definition at line 42 of file [settingsconstants.h](#).

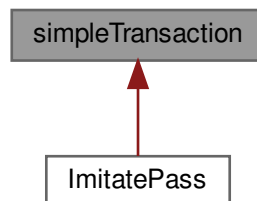
The documentation for this class was generated from the following files:

- [src/settingsconstants.h](#)
- [src/settingsconstants.cpp](#)

13.23 simpleTransaction Class Reference

```
#include <simpletransaction.h>
```

Inheritance diagram for simpleTransaction:



Public Member Functions

- [simpleTransaction](#) ()
- void [transactionStart](#) ()
transactionStart this function is used to mark start of the sequence of processes that shall be treated as one operation.
- void [transactionAdd](#) ([Enums::PROCESS](#))
transactionAdd If called after call to [transactionStart\(\)](#) and before [transactionEnd\(\)](#), this method marks given process as next step in transaction. Otherwise it marks given process as the only step in transaction(it's value is treated as transaction result).
- void [transactionEnd](#) ([Enums::PROCESS](#))
transactionEnd marks end of transaction
- [Enums::PROCESS](#) [transactionIsOver](#) ([Enums::PROCESS](#))
transactionIsOver checks wheather currently finished process is last in current transaction

13.23.1 Detailed Description

Definition at line 7 of file [simpletransaction.h](#).

13.23.2 Constructor & Destructor Documentation

13.23.2.1 simpleTransaction()

```
simpleTransaction::simpleTransaction ( ) [inline]
```

Definition at line 13 of file [simpletransaction.h](#).

13.23.3 Member Function Documentation

13.23.3.1 transactionAdd()

```
void simpleTransaction::transactionAdd (
    Enums::PROCESS id )
```

transactionAdd If called after call to [transactionStart\(\)](#) and before [transactionEnd\(\)](#), this method marks given process as next step in transaction. Otherwise it marks given process as the only step in transaction(it's value is treated as transaction result).

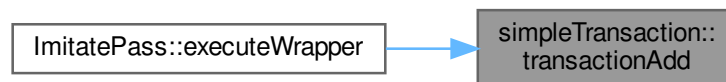
[simpleTransaction::transactionAdd](#)

Parameters

<i>id</i>	process that shall be treated as part of transaction
<i>id</i>	

Definition at line 25 of file [simpletransaction.cpp](#).

Here is the caller graph for this function:



13.23.3.2 transactionEnd()

```
void simpleTransaction::transactionEnd (
    Enums::PROCESS pid )
```

transactionEnd marks end of transaction

[simpleTransaction::transactionEnd](#)

Parameters

<i>pid</i>	value that will be used as a result of transaction
<i>pid</i>	

Definition at line 40 of file [simpletransaction.cpp](#).

13.23.3.3 transactionIsOver()

```
PROCESS simpleTransaction::transactionIsOver (
    Enums::PROCESS id )
```

transactionIsOver checks wheather currently finished process is last in current transaction

[simpleTransaction::transactionIsOver](#)

Returns

result of transaction as set by transactionAdd or transactionEnd if the transaction is over or PROCESS::INVALID if it's not yet over

Parameters

<i>id</i>	
-----------	--

Returns

Definition at line 58 of file [simpletransaction.cpp](#).

Here is the caller graph for this function:



13.23.3.4 transactionStart()

```
void simpleTransaction::transactionStart ( )
```

transactionStart this function is used to mark start of the sequence of processes that shall be treated as one operation.

[simpleTransaction::transactionStart](#)

Definition at line 14 of file [simpletransaction.cpp](#).

The documentation for this class was generated from the following files:

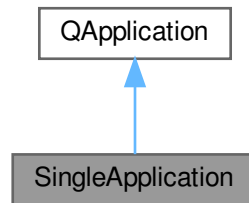
- [src/simpletransaction.h](#)
- [src/simpletransaction.cpp](#)

13.24 SingleApplication Class Reference

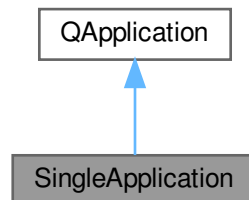
The [SingleApplication](#) class is used for commandline intergration.

```
#include <singleapplication.h>
```

Inheritance diagram for SingleApplication:



Collaboration diagram for SingleApplication:



Public Slots

- void [receiveMessage](#) ()
[SingleApplication::receiveMessage](#) we have received (a command line) message.

Signals

- void [messageAvailable](#) (QString message)
messageAvailable notification from commandline

Public Member Functions

- [SingleApplication](#) (int &argc, char *argv[], QString uniqueKey)
[SingleApplication::SingleApplication](#) this replaces the QApplication allowing for local socket based communications.
- bool [isRunning](#) ()
[SingleApplication::isRunning](#) is there already a [QtPass](#) instance running, to check wether to be server or client.
- bool [sendMessage](#) (const QString &message)
[SingleApplication::sendMessage](#) send a message (from commandline) to an already running [QtPass](#) instance.

13.24.1 Detailed Description

The [SingleApplication](#) class is used for commandline intergration.

This class needs a bit of work or possibly replacement.

Definition at line 14 of file [singleapplication.h](#).

13.24.2 Constructor & Destructor Documentation

13.24.2.1 SingleApplication()

```
SingleApplication::SingleApplication (
    int & argc,
    char * argv[],
    QString uniqueKey )
```

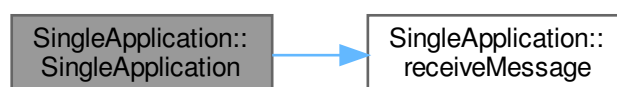
[SingleApplication::SingleApplication](#) this replaces the QApplication allowing for local socket based communications.

Parameters

<i>argc</i>	
<i>argv</i>	
<i>uniqueKey</i>	

Definition at line 15 of file [singleapplication.cpp](#).

Here is the call graph for this function:



13.24.3 Member Function Documentation

13.24.3.1 isRunning()

```
bool SingleApplication::isRunning ( )
```

[SingleApplication::isRunning](#) is there already a [QtPass](#) instance running, to check wether to be server or client.

Returns

Definition at line 64 of file [singleapplication.cpp](#).

Here is the caller graph for this function:



13.24.3.2 messageAvailable

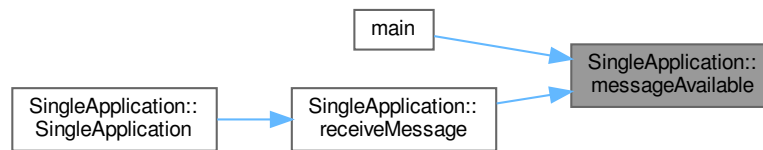
```
void SingleApplication::messageAvailable (
    QString message ) [signal]
```

messageAvailable notification from commandline

Parameters

<i>message</i>	args sent to qtpass executable
----------------	--------------------------------

Here is the caller graph for this function:



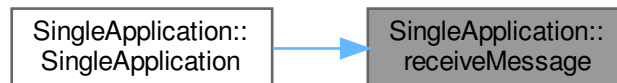
13.24.3.3 receiveMessage

```
void SingleApplication::receiveMessage ( ) [slot]
```

[SingleApplication::receiveMessage](#) we have received (a command line) message.

Definition at line 44 of file [singleapplication.cpp](#).

Here is the caller graph for this function:



13.24.3.4 sendMessage()

```
bool SingleApplication::sendMessage (
    const QString & message )
```

[SingleApplication::sendMessage](#) send a message (from commandline) to an already running [QtPass](#) instance.

Parameters

<i>message</i>	
----------------	--

Returns

Definition at line 72 of file [singleapplication.cpp](#).

Here is the caller graph for this function:



The documentation for this class was generated from the following files:

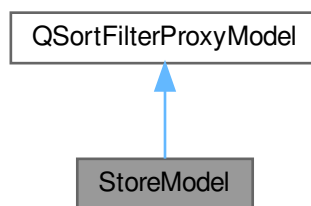
- [src/singleapplication.h](#)
- [src/singleapplication.cpp](#)

13.25 StoreModel Class Reference

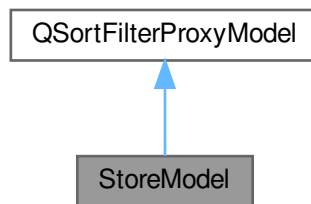
The QSortFilterProxyModel for handling filesystem searches.

```
#include <storemodel.h>
```

Inheritance diagram for StoreModel:



Collaboration diagram for StoreModel:



Public Member Functions

- `StoreModel ()`
StoreModel::StoreModel SubClass of `QSortFilterProxyModel` via <http://www.qtcentre.org/threads/46471-↔QTreeView-Filter>.
- bool `filterAcceptsRow` (int, const QModelIndex &) const override
StoreModel::filterAcceptsRow should row be shown, wrapper for *StoreModel::ShowThis* method.
- bool `ShowThis` (const QModelIndex) const
StoreModel::ShowThis should a row be shown, based on our search criteria.
- void `setModelAndStore` (QFileSystemModel *sourceModel, QString passStore)
StoreModel::setModelAndStore update the source model and store.
- QVariant `data` (const QModelIndex &index, int role) const override
StoreModel::data don't show the .gpg at the end of a file.
- bool `lessThan` (const QModelIndex &source_left, const QModelIndex &source_right) const override
StoreModel::lessThan.
- Qt::DropActions `supportedDropActions` () const override
StoreModel::supportedDropActions enable drop.
- Qt::DropActions `supportedDragActions` () const override
StoreModel::supportedDragActions enable drag.
- Qt::ItemFlags `flags` (const QModelIndex &index) const override
StoreModel::flags.
- QStringList `mimeTypes` () const override
StoreModel::mimeTypes.
- QMimeData * `mimeData` (const QModelIndexList &indexes) const override
StoreModel::mimeData.
- bool `canDropMimeData` (const QMimeData *data, Qt::DropAction action, int row, int column, const QModelIndex &parent) const override
StoreModel::canDropMimeData.
- bool `dropMimeData` (const QMimeData *data, Qt::DropAction action, int row, int column, const QModelIndex &parent) override
StoreModel::dropMimeData.

13.25.1 Detailed Description

The `QSortFilterProxyModel` for handling filesystem searches.

Definition at line 11 of file [storemodel.h](#).

13.25.2 Constructor & Destructor Documentation

13.25.2.1 StoreModel()

```
StoreModel::StoreModel ( )
```

[StoreModel::StoreModel](#) SubClass of [QSortFilterProxyModel](#) via <http://www.qtcentre.org/threads/46471-4-QTreeView-Filter>.

Definition at line 34 of file [storemodel.cpp](#).

13.25.3 Member Function Documentation

13.25.3.1 canDropMimeData()

```
bool StoreModel::canDropMimeData (
    const QMimeData * data,
    Qt::DropAction action,
    int row,
    int column,
    const QModelIndex & parent ) const [override]
```

[StoreModel::canDropMimeData](#).

Parameters

<i>data</i>	
<i>action</i>	
<i>row</i>	
<i>column</i>	
<i>parent</i>	

Returns

Definition at line 189 of file [storemodel.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.25.3.2 data()

```
QVariant StoreModel::data (
    const QModelIndex & index,
    int role ) const [override]
```

[StoreModel::data](#) don't show the .gpg at the end of a file.

Parameters

<i>index</i>	
<i>role</i>	

Returns

Definition at line 97 of file [storemodel.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.25.3.3 dropMimeData()

```
bool StoreModel::dropMimeData (
    const QMimeData * data,
    Qt::DropAction action,
    int row,
    int column,
    const QModelIndex & parent ) [override]
```

[StoreModel::dropMimeData.](#)

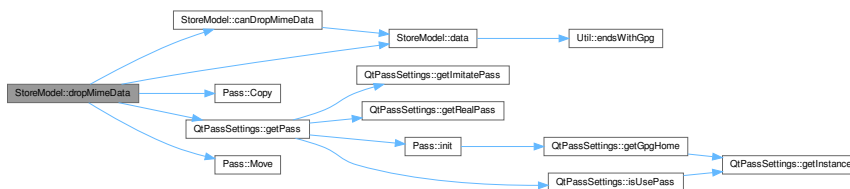
Parameters

<i>data</i>	
<i>action</i>	
<i>row</i>	
<i>column</i>	
<i>parent</i>	

Returns

Definition at line 238 of file [storemodel.cpp](#).

Here is the call graph for this function:



13.25.3.4 filterAcceptsRow()

```
bool StoreModel::filterAcceptsRow (
    int sourceRow,
    const QModelIndex & sourceParent ) const [override]
```

[StoreModel::filterAcceptsRow](#) should row be shown, wrapper for [StoreModel::ShowThis](#) method.

Parameters

<i>sourceRow</i>	
<i>sourceParent</i>	

Returns

Definition at line 43 of file [storemodel.cpp](#).

Here is the call graph for this function:



13.25.3.5 flags()

```
Qt::ItemFlags StoreModel::flags (
    const QModelIndex & index ) const [override]
```

[StoreModel::flags](#).

Parameters

<i>index</i>	
--------------	--

Returns

Definition at line 134 of file [storemodel.cpp](#).

13.25.3.6 lessThan()

```
bool StoreModel::lessThan (
    const QModelIndex & source_left,
    const QModelIndex & source_right ) const [override]
```

[StoreModel::lessThan](#).

Parameters

<i>source_left</i>	
<i>source_right</i>	

Returns

Definition at line 300 of file [storemodel.cpp](#).

13.25.3.7 mimeType()

```
QMimeType * StoreModel::mimeType (
    const QModelIndexList & indexes ) const [override]
```

[StoreModel::mimeType](#).

Parameters

<i>indexes</i>	
----------------	--

Returns

Definition at line 158 of file [storemodel.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.25.3.8 mimeTypees()

```
QStringList StoreModel::mimeTypees ( ) const [override]
```

[StoreModel::mimeTypees](#).

Returns

Definition at line 147 of file [storemodel.cpp](#).

13.25.3.9 setModelAndStore()

```
void StoreModel::setModelAndStore (
    QFileSystemModel * sourceModel,
    QString passStore )
```

[StoreModel::setModelAndStore](#) update the source model and store.

Parameters

<i>sourceModel</i>	
<i>passStore</i>	

Definition at line 84 of file [storemodel.cpp](#).

Here is the caller graph for this function:



13.25.3.10 ShowThis()

```
bool StoreModel::ShowThis (
    const QModelIndex index ) const
```

[StoreModel::ShowThis](#) should a row be shown, based on our search criteria.

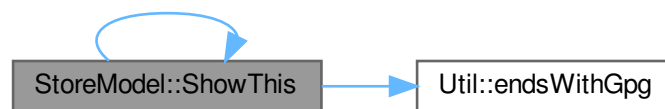
Parameters

<i>index</i>	
--------------	--

Returns

Definition at line 55 of file [storemodel.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.25.3.11 supportedDragActions()

```
Qt::DropActions StoreModel::supportedDragActions ( ) const [override]
```

[StoreModel::supportedDragActions](#) enable drag.

Returns

Definition at line 125 of file [storemodel.cpp](#).

13.25.3.12 supportedDropActions()

```
Qt::DropActions StoreModel::supportedDropActions ( ) const [override]
```

[StoreModel::supportedDropActions](#) enable drop.

Returns

Definition at line 117 of file [storemodel.cpp](#).

The documentation for this class was generated from the following files:

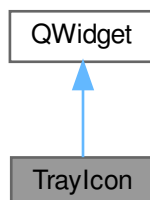
- [src/storemodel.h](#)
- [src/storemodel.cpp](#)

13.26 TrayIcon Class Reference

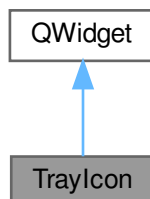
Handles the systemtray icon and menu.

```
#include <trayicon.h>
```

Inheritance diagram for TrayIcon:



Collaboration diagram for TrayIcon:



Public Slots

- void [showHideParent](#) ()
[TrayIcon::showHideParent](#) toggle app visibility.
- void [iconActivated](#) (QSystemTrayIcon::ActivationReason reason)
[TrayIcon::iconActivated](#) you clicked on the trayicon.

Public Member Functions

- [TrayIcon](#) (QMainWindow *parent)
[TrayIcon::TrayIcon](#) use a (system) tray icon with a nice [QtPass](#) logo on it (currently) only Quits.
- void [showMessage](#) (const QString &title, const QString &msg, int time)
[TrayIcon::showMessage](#) show a systray message for notification.
- void [setVisible](#) (bool visible)
[TrayIcon::setVisible](#) show or hide the icon.
- bool [getIsAllocated](#) ()
[TrayIcon::getIsAllocated](#) return if [TrayIcon](#) is allocated.

13.26.1 Detailed Description

Handles the systemtray icon and menu.

Definition at line 14 of file [trayicon.h](#).

13.26.2 Constructor & Destructor Documentation

13.26.2.1 TrayIcon()

```
TrayIcon::TrayIcon (
    QMainWindow * parent ) [explicit]
```

[TrayIcon::TrayIcon](#) use a (system) tray icon with a nice [QtPass](#) logo on it (currently) only Quits.

Parameters

<i>parent</i>	
---------------	--

Definition at line 16 of file [trayicon.cpp](#).

Here is the call graph for this function:



13.26.3 Member Function Documentation

13.26.3.1 `getIsAllocated()`

```
bool TrayIcon::getIsAllocated ( )
```

[TrayIcon::getIsAllocated](#) return if [TrayIcon](#) is allocated.

Definition at line 57 of file [trayicon.cpp](#).

13.26.3.2 `iconActivated`

```
void TrayIcon::iconActivated (
    QSystemTrayIcon::ActivationReason reason ) [slot]
```

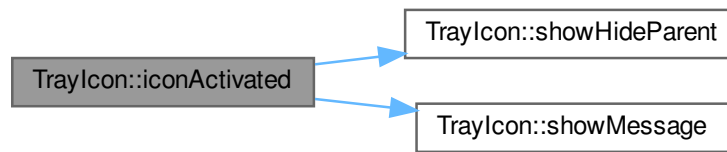
[TrayIcon::iconActivated](#) you clicked on the trayicon.

Parameters

<i>reason</i>	
---------------	--

Definition at line 112 of file [trayicon.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.26.3.3 setVisible()

```
void TrayIcon::setVisible (
    bool visible )
```

[TrayIcon::setVisible](#) show or hide the icon.

Parameters

<i>visible</i>	
----------------	--

Definition at line 47 of file [trayicon.cpp](#).

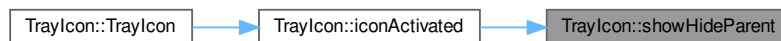
13.26.3.4 showHideParent

```
void TrayIcon::showHideParent ( ) [slot]
```

[TrayIcon::showHideParent](#) toggle app visibility.

Definition at line 101 of file [trayicon.cpp](#).

Here is the caller graph for this function:



13.26.3.5 showMessage()

```

void TrayIcon::showMessage (
    const QString & title,
    const QString & msg,
    int time )
  
```

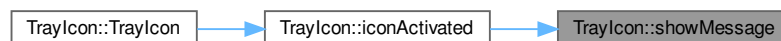
[TrayIcon::showMessage](#) show a systray message for notification.

Parameters

<i>title</i>	
<i>msg</i>	
<i>time</i>	

Definition at line 132 of file [trayicon.cpp](#).

Here is the caller graph for this function:



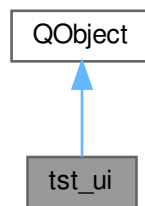
The documentation for this class was generated from the following files:

- [src/trayicon.h](#)
- [src/trayicon.cpp](#)

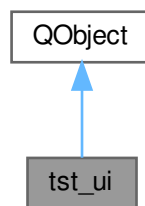
13.27 tst_ui Class Reference

The [tst_ui](#) class is our first unit test.

Inheritance diagram for `tst_util`:



Collaboration diagram for `tst_util`:



13.27.1 Detailed Description

The `tst_util` class is our first unit test.

Definition at line 9 of file `tst_util.cpp`.

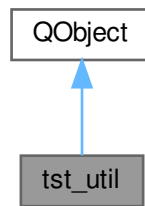
The documentation for this class was generated from the following file:

- `tests/auto/ui/tst_util.cpp`

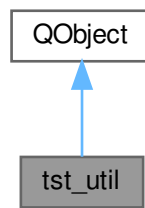
13.28 `tst_util` Class Reference

The `tst_util` class is our first unit test.

Inheritance diagram for `tst_util`:



Collaboration diagram for `tst_util`:



Public Slots

- void `init` ()
`tst_util::init` unit test init method
- void `cleanup` ()
`tst_util::cleanup` unit test cleanup method

Public Member Functions

- `tst_util` ()
`tst_util::tst_util` basic constructor
- `~tst_util` () override
`tst_util::~~tst_util` basic destructor

13.28.1 Detailed Description

The `tst_util` class is our first unit test.

Definition at line 10 of file `tst_util.cpp`.

13.28.2 Constructor & Destructor Documentation

13.28.2.1 `tst_util()`

```
tst_util::tst_util ( ) [default]
```

[tst_util::tst_util](#) basic constructor

13.28.2.2 `~tst_util()`

```
tst_util::~~tst_util ( ) [override], [default]
```

[tst_util::~~tst_util](#) basic destructor

13.28.3 Member Function Documentation

13.28.3.1 `cleanup`

```
void tst_util::cleanup ( ) [slot]
```

[tst_util::cleanup](#) unit test cleanup method

Definition at line 50 of file [tst_util.cpp](#).

13.28.3.2 `init`

```
void tst_util::init ( ) [slot]
```

[tst_util::init](#) unit test init method

Definition at line 45 of file [tst_util.cpp](#).

The documentation for this class was generated from the following file:

- [tests/auto/util/tst_util.cpp](#)

13.29 UserInfo Struct Reference

Stores key info lines including validity, creation date and more.

```
#include <userinfo.h>
```

Public Member Functions

- [UserInfo \(\)](#)
- bool [fullyValid \(\)](#)
[UserInfo::fullyValid](#) when validity is f or u. http://git.gnupg.org/cgi-bin/gitweb.cgi?p=gnupg.git;a=blob_plain;f=doc/DETAILS.
- bool [marginallyValid \(\)](#)
[UserInfo::marginallyValid](#) when validity is m. http://git.gnupg.org/cgi-bin/gitweb.cgi?p=gnupg.git;a=blob_plain;f=doc/DETAILS.
- bool [isValid \(\)](#)
[UserInfo::isValid](#) when fullyValid or marginallyValid.

Public Attributes

- QString [name](#)
[UserInfo::name](#) full name.
- QString [key_id](#)
[UserInfo::key_id](#) hexadecimal representation.
- char [validity](#)
[UserInfo::validity](#) GnuPG representation of validity http://git.gnupg.org/cgi-bin/gitweb.cgi?p=gnupg.git;a=blob_plain;f=doc/DETAILS.
- bool [have_secret](#)
[UserInfo::have_secret](#) secret key is available (can decrypt with this key)
- bool [enabled](#)
[UserInfo::enabled](#).
- QDateTime [expiry](#)
[UserInfo::expiry](#) date/time key expires.
- QDateTime [created](#)
[UserInfo::created](#) date/time key was created.

13.29.1 Detailed Description

Stores key info lines including validity, creation date and more.

Definition at line 11 of file [userinfo.h](#).

13.29.2 Constructor & Destructor Documentation

13.29.2.1 UserInfo()

```
UserInfo::UserInfo ( ) [inline]
```

Definition at line 12 of file [userinfo.h](#).

13.29.3 Member Function Documentation

13.29.3.1 fullyValid()

```
bool UserInfo::fullyValid ( ) [inline]
```

[UserInfo::fullyValid](#) when validity is f or u. http://git.gnupg.org/cgi-bin/gitweb.cgi?p=gnupg.git;a=blob_plain;f=doc/DETAILS.

Definition at line 18 of file [userinfo.h](#).

Here is the caller graph for this function:



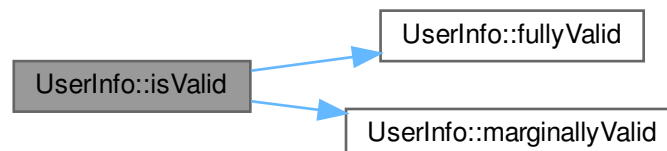
13.29.3.2 isValid()

```
bool UserInfo::isValid ( ) [inline]
```

[UserInfo::isValid](#) when `fullyValid` or `marginallyValid`.

Definition at line 27 of file [userinfo.h](#).

Here is the call graph for this function:



13.29.3.3 marginallyValid()

```
bool UserInfo::marginallyValid ( ) [inline]
```

[UserInfo::marginallyValid](#) when validity is m. http://git.gnupg.org/cgi-bin/gitweb.cgi?p=gnupg.git;a=blob_plain;f=doc/DETAILS.

Definition at line 23 of file [userinfo.h](#).

Here is the caller graph for this function:



13.29.4 Member Data Documentation

13.29.4.1 created

```
QDateTime UserInfo::created
```

[UserInfo::created](#) date/time key was created.

Definition at line 58 of file [userinfo.h](#).

13.29.4.2 enabled

```
bool UserInfo::enabled
```

[UserInfo::enabled](#).

Definition at line 50 of file [userinfo.h](#).

13.29.4.3 expiry

```
QDateTime UserInfo::expiry
```

[UserInfo::expiry](#) date/time key expires.

Definition at line 54 of file [userinfo.h](#).

13.29.4.4 have_secret

```
bool UserInfo::have_secret
```

[UserInfo::have_secret](#) secret key is available (can decrypt with this key)

Definition at line 46 of file [userinfo.h](#).

13.29.4.5 key_id

```
QString UserInfo::key_id
```

[UserInfo::key_id](#) hexadecimal representation.

Definition at line 36 of file [userinfo.h](#).

13.29.4.6 name

```
QString UserInfo::name
```

[UserInfo::name](#) full name.

Definition at line 32 of file [userinfo.h](#).

13.29.4.7 validity

```
char UserInfo::validity
```

[UserInfo::validity](#) GnuPG representation of validity http://git.gnupg.org/cgi-bin/gitweb.cgi?p=gnupg.git;a=blob_plain;f=doc/DETAILS.

Definition at line 41 of file [userinfo.h](#).

The documentation for this struct was generated from the following file:

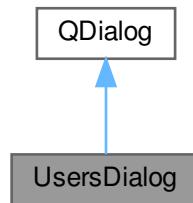
- [src/userinfo.h](#)

13.30 UsersDialog Class Reference

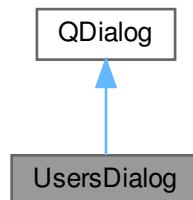
Handles listing and editing of GPG users.

```
#include <usersdialog.h>
```

Inheritance diagram for UsersDialog:



Collaboration diagram for UsersDialog:



Public Slots

- void [accept](#) ()
[UsersDialog::accept](#).

Public Member Functions

- [UsersDialog](#) (QString dir, QWidget *parent=nullptr)
[UsersDialog::UsersDialog](#) basic constructor.
- [~UsersDialog](#) ()
[UsersDialog::~~UsersDialog](#) basic destructor.

Protected Member Functions

- void [closeEvent](#) (QCloseEvent *event)
[UsersDialog::closeEvent](#) might have to store size and location if that is wanted.
- void [keyPressEvent](#) (QKeyEvent *event)
[UsersDialog::keyPressEvent](#) clear the lineEdit when escape is pressed. No action for Enter currently.

13.30.1 Detailed Description

Handles listing and editing of GPG users.

Selection of whom to encrypt to.

Definition at line 23 of file [usersdialog.h](#).

13.30.2 Constructor & Destructor Documentation

13.30.2.1 UsersDialog()

```
UsersDialog::UsersDialog (
    QString dir,
    QWidget * parent = nullptr ) [explicit]
```

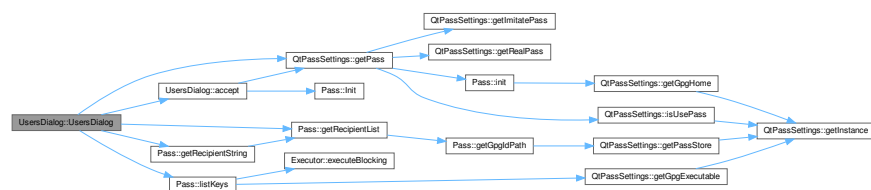
[UsersDialog::UsersDialog](#) basic constructor.

Parameters

<i>parent</i>	
---------------	--

Definition at line 18 of file [usersdialog.cpp](#).

Here is the call graph for this function:



13.30.2.2 ~UsersDialog()

`UsersDialog::~~UsersDialog ()`

[UsersDialog::~~UsersDialog](#) basic destructor.

Definition at line 80 of file [usersdialog.cpp](#).

13.30.3 Member Function Documentation

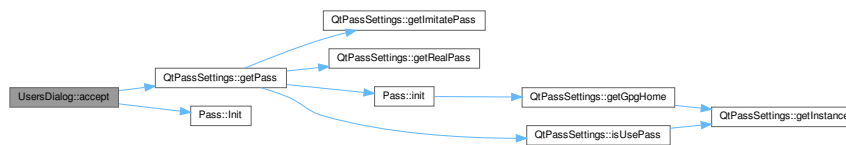
13.30.3.1 accept

`void UsersDialog::accept () [slot]`

[UsersDialog::accept](#).

Definition at line 87 of file [usersdialog.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.30.3.2 closeEvent()

`void UsersDialog::closeEvent (`
 `QCloseEvent * event) [protected]`

[UsersDialog::closeEvent](#) might have to store size and location if that is wanted.

Parameters

<i>event</i>	
--------------	--

Definition at line 98 of file [usersdialog.cpp](#).

13.30.3.3 keyPressEvent()

```
void UsersDialog::keyPressEvent (
    QKeyEvent * event ) [protected]
```

[UsersDialog::keyPressEvent](#) clear the lineEdit when escape is pressed. No action for Enter currently.

Parameters

<i>event</i>	
--------------	--

Definition at line 108 of file [usersdialog.cpp](#).

The documentation for this class was generated from the following files:

- [src/usersdialog.h](#)
- [src/usersdialog.cpp](#)

13.31 Util Class Reference

Some static utilities to be used elsewhere.

```
#include <util.h>
```

Static Public Member Functions

- static QString [findBinaryInPath](#) (QString binary)
Util::findBinaryInPath search for executables.
- static QString [findPasswordStore](#) ()
Util::findPasswordStore look for common .password-store folder location.
- static QString [normalizeFolderPath](#) (QString path)
Util::normalizeFolderPath let's always end folders with a QDir::separator()
- static bool [checkConfig](#) ()
Util::checkConfig do we have prerequisite settings?
- static QString [getDir](#) (const QModelIndex &index, bool forPass, const QFileSystemModel &model, const StoreModel &storeModel)
Util::getDir get selectd folder path.
- static void [copyDir](#) (const QString &src, const QString &dest)
Util::copyDir.
- static const QRegularExpression & [endsWithGpg](#) ()
- static const QRegularExpression & [protocolRegex](#) ()

13.31.1 Detailed Description

Some static utilities to be used elsewhere.

Definition at line 16 of file [util.h](#).

13.31.2 Member Function Documentation

13.31.2.1 checkConfig()

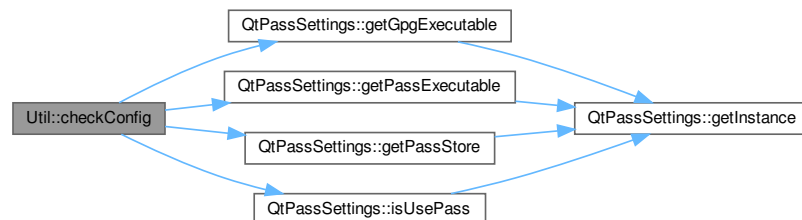
```
bool Util::checkConfig ( ) [static]
```

[Util::checkConfig](#) do we have prerequisite settings?

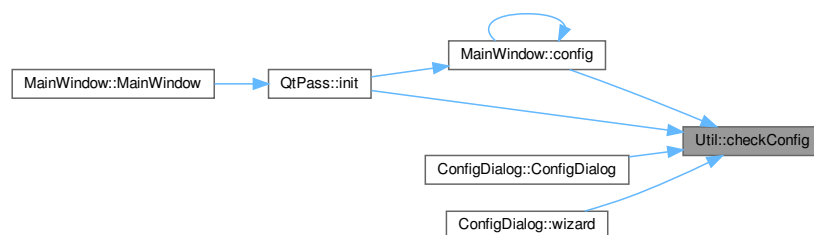
Returns

Definition at line 142 of file [util.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.31.2.2 copyDir()

```
void Util::copyDir (
    const QString & src,
    const QString & dest ) [static]
```

[Util::copyDir](#).

Parameters

<i>src</i>	
<i>dest</i>	

Definition at line [182](#) of file [util.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:

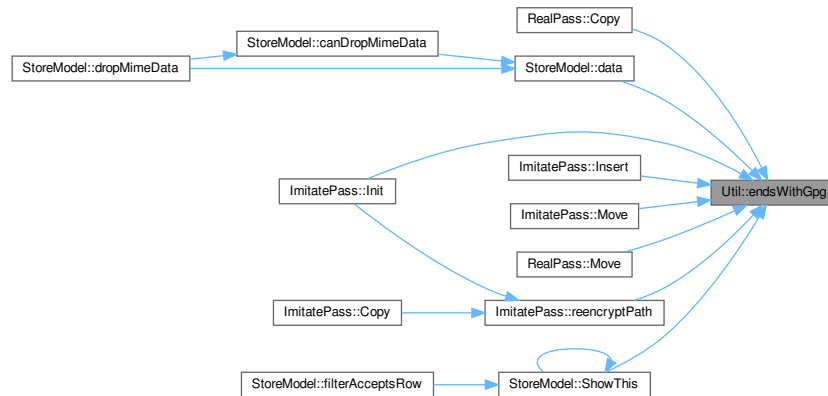


13.31.2.3 endsWithGpg()

```
const QRegularExpression & Util::endsWithGpg ( ) [static]
```

Definition at line [198](#) of file [util.cpp](#).

Here is the caller graph for this function:



13.31.2.4 findBinaryInPath()

```
QString Util::findBinaryInPath (
    QString binary ) [static]
```

[Util::findBinaryInPath](#) search for executables.

Parameters

<i>binary</i>	
---------------	--

Returns

Definition at line 90 of file [util.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.31.2.5 findPasswordStore()

```
QString Util::findPasswordStore ( ) [static]
```

[Util::findPasswordStore](#) look for common .password-store folder location.

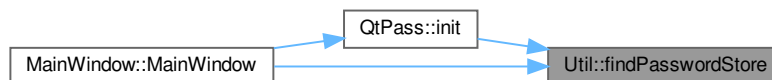
Returns

Definition at line 56 of file [util.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.31.2.6 getDir()

```
QString Util::getDir (
    const QModelIndex & index,
    bool forPass,
    const QFileSystemModel & model,
    const StoreModel & storeModel ) [static]
```

[Util::getDir](#) get selectd folder path.

Parameters

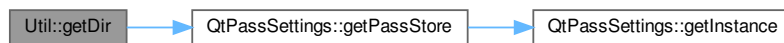
<i>index</i>	
<i>forPass</i>	short or full path
<i>model</i>	the filesystem model to operate on
<i>storeModel</i>	our storemodel to operate on

Returns

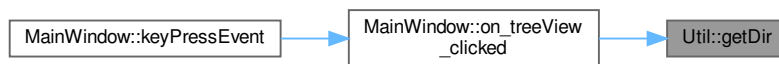
path

Definition at line 160 of file [util.cpp](#).

Here is the call graph for this function:



Here is the caller graph for this function:



13.31.2.7 normalizeFolderPath()

```
QString Util::normalizeFolderPath (
    QString path ) [static]
```

[Util::normalizeFolderPath](#) let's always end folders with a `QDir::separator()`

Parameters

<i>path</i>	
-------------	--

Returns

Definition at line 79 of file [util.cpp](#).

Here is the caller graph for this function:



13.31.2.8 protocolRegex()

```
const QRegularExpression & Util::protocolRegex ( ) [static]
```

Definition at line 203 of file [util.cpp](#).

The documentation for this class was generated from the following files:

- [src/util.h](#)
- [src/util.cpp](#)

Chapter 14

File Documentation

14.1 CHANGELOG.md File Reference

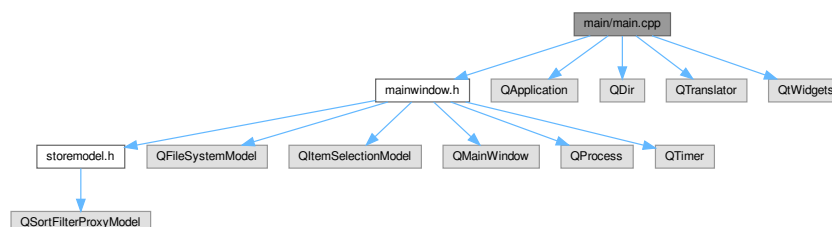
14.2 CODE_OF_CONDUCT.md File Reference

14.3 CONTRIBUTING.md File Reference

14.4 FAQ.md File Reference

14.5 main/main.cpp File Reference

```
#include "mainwindow.h"
#include <QApplication>
#include <QDir>
#include <QTranslator>
#include <QtWidgets>
Include dependency graph for main.cpp:
```



Functions

- int `main` (int argc, char *argv[])
main

14.5.1 Function Documentation

14.5.1.1 main()

```
int main (
    int argc,
    char * argv[] )
```

main

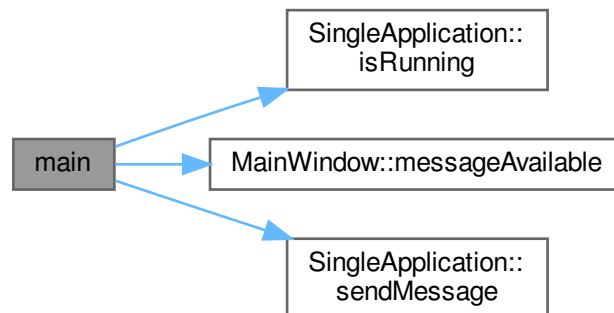
Parameters

<i>argc</i>	
<i>argv</i>	

Returns

Definition at line 43 of file [main.cpp](#).

Here is the call graph for this function:



14.6 main.cpp

[Go to the documentation of this file.](#)

```
00001 #include "mainwindow.h"
00002 #if SINGLE_APP
00003 #include "singleapplication.h"
00004 #endif
00005
00006 #include <QApplication>
00007 #include <QDir>
```

```

00008 #include <QTranslator>
00009 #include <QtWidgets>
00010
00043 int main(int argc, char *argv[]) {
00044     #if QT_VERSION < QT_VERSION_CHECK(6, 0, 0)
00045         QApplication::setAttribute(Qt::AA_EnableHighDpiScaling);
00046         QApplication::setAttribute(Qt::AA_UseHighDpiPixmaps);
00047     #endif
00048     QString text = "";
00049     for (int i = 1; i < argc; ++i) {
00050         if (i > 1)
00051             text += " ";
00052         text += argv[i];
00053     }
00054
00055     if ((text.indexOf("-psn_") == 0) || (text.indexOf("-session") == 0)) {
00056         text.clear();
00057     }
00058
00059     #if SINGLE_APP
00060         QString name = qgetenv("USER");
00061         if (name.isEmpty())
00062             name = qgetenv("USERNAME");
00063         SingleApplication app(argc, argv, name + "QtPass");
00064         if (app.isRunning()) {
00065             if (text.length() > 0)
00066                 app.sendMessage(text);
00067             return 0;
00068         }
00069     #else
00070         QApplication app(argc, argv);
00071     #endif
00072
00073     Q_INIT_RESOURCE(resources);
00074     Q_INIT_RESOURCE(qmake_qmake_qm_files); // qmake names the file
00075
00076     QCoreApplication::setOrganizationName("IJHack");
00077     QCoreApplication::setOrganizationDomain("ijhack.org");
00078     QCoreApplication::setApplicationName("QtPass");
00079     QCoreApplication::setApplicationVersion(VERSION);
00080
00081     // Setup and load translator for localization
00082     QTranslator translator;
00083     QString locale = QLocale::system().name();
00084     // locale = "nl_NL";
00085     // locale = "he_IL";
00086     // locale = "ar_MA";
00087     if (translator.load(
00088         QString(":/localization/localization_%1.qm").arg(locale))) {
00089         SingleApplication::installTranslator(&translator);
00090         SingleApplication::setLayoutDirection(
00091             QObject::tr("LTR") == "RTL" ? Qt::RightToLeft : Qt::LeftToRight);
00092     }
00093
00094     MainWindow w(text);
00095
00096     SingleApplication::setActiveWindow(&w);
00097     SingleApplication::setWindowIcon(QIcon(":/artwork/icon.png"));
00098
00099     #if SINGLE_APP
00100         QObject::connect(&app, &SingleApplication::messageAvailable, &w,
00101             &MainWindow::messageAvailable);
00102     #endif
00103
00104     QGuiApplication::setDesktopFileName("qtpass.desktop");
00105
00106     // Center the MainWindow on the screen the mouse pointer is currently on
00107     #if QT_VERSION < QT_VERSION_CHECK(5, 12, 0)
00108         static int cursorScreen =
00109             app.desktop()->screenNumber(app.desktop()->cursor().pos());
00110         QPoint cursorScreenCenter =
00111             app.desktop()->screenGeometry(cursorScreen).center();
00112     #else
00113         QScreen *screen = QGuiApplication::screenAt(QCursor::pos());
00114         QPoint cursorScreenCenter = screen->geometry().center();
00115     #endif
00116     QRect windowFrameGeo = w.frameGeometry();
00117     windowFrameGeo.moveCenter(cursorScreenCenter);
00118     w.move(windowFrameGeo.topLeft());
00119
00120     w.show();
00121
00122     return SingleApplication::exec();
00123 }

```

14.7 README.md File Reference

14.8 src/configdialog.cpp File Reference

```
#include "configdialog.h"
#include "keygendialog.h"
#include "mainwindow.h"
#include "qtpasssettings.h"
#include "ui_configdialog.h"
#include "util.h"
#include <QClipboard>
#include <QDir>
#include <QFileDialog>
#include <QMessageBox>
#include <QPushButton>
#include <QSystemTrayIcon>
#include <QTableWidgetItem>
Include dependency graph for configdialog.cpp:
```



14.9 configdialog.cpp

[Go to the documentation of this file.](#)

```
00001 #include "configdialog.h"
00002 #include "keygendialog.h"
00003 #include "mainwindow.h"
00004 #include "qtpasssettings.h"
00005 #include "ui_configdialog.h"
00006 #include "util.h"
00007 #include <QClipboard>
00008 #include <QDir>
00009 #include <QFileDialog>
00010 #include <QMessageBox>
00011 #include <QPushButton>
00012 #include <QSystemTrayIcon>
00013 #include <QTableWidgetItem>
00014 #ifdef Q_OS_WIN
00015 #include <windows.h>
00016 #endif
00017
00018 #ifdef QT_DEBUG
00019 #include "debughelper.h"
00020 #endif
00021
00026 ConfigDialog::ConfigDialog(MainWindow *parent)
00027 : QDialog(parent), ui(new Ui::ConfigDialog) {
00028     mainWindow = parent;
00029     ui->setupUi(this);
00030
00031     ui->passPath->setText(QtPassSettings::getPassExecutable());
00032     setGitPath(QtPassSettings::getGitExecutable());
00033     ui->gpgPath->setText(QtPassSettings::getGpgExecutable());
00034     ui->storePath->setText(QtPassSettings::getPassStore());
00035
00036     ui->spinBoxAutoclearSeconds->setValue(QtPassSettings::getAutoclearSeconds());
00037     ui->spinBoxAutoclearPanelSeconds->setValue(
00038         QtPassSettings::getAutoclearPanelSeconds());
00039     ui->checkBoxHidePassword->setChecked(QtPassSettings::isHidePassword());
00040     ui->checkBoxHideContent->setChecked(QtPassSettings::isHideContent());
```

```

00041 ui->checkBoxUseMonospace->setChecked(QtPassSettings::isUseMonospace());
00042 ui->checkBoxDisplayAsIs->setChecked(QtPassSettings::isDisplayAsIs());
00043 ui->checkBoxNoLineWrapping->setChecked(QtPassSettings::isNoLineWrapping());
00044 ui->checkBoxAddGPID->setChecked(QtPassSettings::isAddGPID(true));
00045
00046 if (QSystemTrayIcon::isSystemTrayAvailable()) {
00047     ui->checkBoxHideOnClose->setChecked(QtPassSettings::isHideOnClose());
00048     ui->checkBoxStartMinimized->setChecked(QtPassSettings::isStartMinimized());
00049 } else {
00050     ui->checkBoxUseTrayIcon->setEnabled(false);
00051     ui->checkBoxUseTrayIcon->setToolTip(tr("System tray is not available"));
00052     ui->checkBoxHideOnClose->setEnabled(false);
00053     ui->checkBoxStartMinimized->setEnabled(false);
00054 }
00055
00056 ui->checkBoxAvoidCapitals->setChecked(QtPassSettings::isAvoidCapitals());
00057 ui->checkBoxAvoidNumbers->setChecked(QtPassSettings::isAvoidNumbers());
00058 ui->checkBoxLessRandom->setChecked(QtPassSettings::isLessRandom());
00059 ui->checkBoxUseSymbols->setChecked(QtPassSettings::isUseSymbols());
00060 ui->plainTextEditTemplate->setPlainText(QtPassSettings::getPassTemplate());
00061 ui->checkBoxTemplateAllFields->setChecked(
00062     QtPassSettings::isTemplateAllFields());
00063 ui->checkBoxAutoPull->setChecked(QtPassSettings::isAutoPull());
00064 ui->checkBoxAutoPush->setChecked(QtPassSettings::isAutoPush());
00065 ui->checkBoxAlwaysOnTop->setChecked(QtPassSettings::isAlwaysOnTop());
00066
00067 #if defined(Q_OS_WIN)
00068 ui->checkBoxUseOtp->hide();
00069 ui->checkBoxUseQrcode->hide();
00070 ui->label_10->hide();
00071 #endif
00072
00073 if (!isPassOtpAvailable()) {
00074     ui->checkBoxUseOtp->setEnabled(false);
00075     ui->checkBoxUseOtp->setToolTip(
00076         tr("Pass OTP extension needs to be installed"));
00077 }
00078
00079 if (!isQrcodeAvailable()) {
00080     ui->checkBoxUseQrcode->setEnabled(false);
00081     ui->checkBoxUseQrcode->setToolTip(tr("qrcode needs to be installed"));
00082 }
00083
00084 setProfiles(QtPassSettings::getProfiles(), QtPassSettings::getProfile());
00085 setPwgenPath(QtPassSettings::getPwgenExecutable());
00086 setPasswordConfiguration(QtPassSettings::getPasswordConfiguration());
00087
00088 usePass(QtPassSettings::isUsePass());
00089 useAutoclear(QtPassSettings::isUseAutoclear());
00090 useAutoclearPanel(QtPassSettings::isUseAutoclearPanel());
00091 useTrayIcon(QtPassSettings::isUseTrayIcon());
00092 useGit(QtPassSettings::isUseGit());
00093
00094 useOtp(QtPassSettings::isUseOtp());
00095 useQrcode(QtPassSettings::isUseQrcode());
00096
00097 usePwgen(QtPassSettings::isUsePwgen());
00098 useTemplate(QtPassSettings::isUseTemplate());
00099
00100 ui->profileTable->verticalHeader()->hide();
00101 ui->profileTable->horizontalHeader()->setSectionResizeMode(
00102     1, QHeaderView::Stretch);
00103 ui->label->setText(ui->label->text() + VERSION);
00104 ui->comboBoxClipboard->clear();
00105
00106 ui->comboBoxClipboard->addItem(tr("No Clipboard"));
00107 ui->comboBoxClipboard->addItem(tr("Always copy to clipboard"));
00108 ui->comboBoxClipboard->addItem(tr("On-demand copy to clipboard"));
00109
00110 int currentIndex = QtPassSettings::getClipboardTypeRaw();
00111 ui->comboBoxClipboard->setCurrentIndex(currentIndex);
00112 on_comboBoxClipboard_activated(currentIndex);
00113
00114 QClipboard *clip = QApplication::clipboard();
00115 if (!clip->supportsSelection()) {
00116     useSelection(false);
00117     ui->checkBoxSelection->setVisible(false);
00118 } else {
00119     useSelection(QtPassSettings::isUseSelection());
00120 }
00121
00122 if (Util::checkConfig()) {
00123     // Show Programs tab, which is likely
00124     // what the user needs to fix now.
00125     ui->tabWidget->setCurrentIndex(1);
00126 }
00127

```

```

00128     connect(ui->profileTable, &QTableWidget::itemChanged, this,
00129             &ConfigDialog::onProfileTableItemChanged);
00130     connect(this, &ConfigDialog::accepted, this, &ConfigDialog::on_accepted);
00131 }
00132
00137 ConfigDialog::~ConfigDialog() {
00138     QtPassSettings::setGitExecutable(ui->gitPath->text());
00139     QtPassSettings::setGpgExecutable(ui->gpgPath->text());
00140     QtPassSettings::setPassExecutable(ui->passPath->text());
00141 }
00142
00148 void ConfigDialog::setGitPath(QString path) {
00149     ui->gitPath->setText(path);
00150     ui->checkBoxUseGit->setEnabled(!path.isEmpty());
00151     if (path.isEmpty()) {
00152         useGit(false);
00153     }
00154 }
00155
00161 void ConfigDialog::usePass(bool usePass) {
00162     ui->radioButtonNative->setChecked(!usePass);
00163     ui->radioButtonPass->setChecked(usePass);
00164     setGroupBoxState();
00165 }
00166
00167 void ConfigDialog::validate(QTableWidgetItem *item) {
00168     bool status = true;
00169
00170     if (item == nullptr) {
00171         for (int i = 0; i < ui->profileTable->rowCount(); i++) {
00172             for (int j = 0; j < ui->profileTable->columnCount(); j++) {
00173                 QTableWidgetItem *_item = ui->profileTable->item(i, j);
00174
00175                 if (_item->text().isEmpty() && j != 2) {
00176                     _item->setBackground(Qt::red);
00177                     status = false;
00178                     break;
00179                 }
00180             }
00181
00182             if (!status)
00183                 break;
00184         }
00185     } else {
00186         if (item->text().isEmpty() && item->column() != 2) {
00187             item->setBackground(Qt::red);
00188             status = false;
00189         }
00190     }
00191
00192     ui->buttonBox->button(QDialogButtonBox::Ok)->setEnabled(status);
00193 }
00194
00195 void ConfigDialog::on_accepted() {
00196     QtPassSettings::setPassExecutable(ui->passPath->text());
00197     QtPassSettings::setGitExecutable(ui->gitPath->text());
00198     QtPassSettings::setGpgExecutable(ui->gpgPath->text());
00199     QtPassSettings::setPassStore(
00200         Util::normalizeFolderPath(ui->storePath->text()));
00201     QtPassSettings::setUsePass(ui->radioButtonPass->isChecked());
00202     QtPassSettings::setClipboardType(ui->comboBoxClipboard->currentIndex());
00203     QtPassSettings::setUseSelection(ui->checkBoxSelection->isChecked());
00204     QtPassSettings::setUseAutoclear(ui->checkBoxAutoclear->isChecked());
00205     QtPassSettings::setAutoclearSeconds(ui->spinBoxAutoclearSeconds->value());
00206     QtPassSettings::setUseAutoclearPanel(ui->checkBoxAutoclearPanel->isChecked());
00207     QtPassSettings::setAutoclearPanelSeconds(
00208         ui->spinBoxAutoclearPanelSeconds->value());
00209     QtPassSettings::setHidePassword(ui->checkBoxHidePassword->isChecked());
00210     QtPassSettings::setHideContent(ui->checkBoxHideContent->isChecked());
00211     QtPassSettings::setUseMonospace(ui->checkBoxUseMonospace->isChecked());
00212     QtPassSettings::setDisplayAsIs(ui->checkBoxDisplayAsIs->isChecked());
00213     QtPassSettings::setNoLineWrapping(ui->checkBoxNoLineWrapping->isChecked());
00214     QtPassSettings::setAddGPGId(ui->checkBoxAddGPGId->isChecked());
00215     QtPassSettings::setUseTrayIcon(ui->checkBoxUseTrayIcon->isEnabled() &&
00216         ui->checkBoxUseTrayIcon->isChecked());
00217     QtPassSettings::setHideOnClose(ui->checkBoxHideOnClose->isEnabled() &&
00218         ui->checkBoxHideOnClose->isChecked());
00219     QtPassSettings::setStartMinimized(ui->checkBoxStartMinimized->isEnabled() &&
00220         ui->checkBoxStartMinimized->isChecked());
00221     QtPassSettings::setProfiles(getProfiles());
00222     QtPassSettings::setUseGit(ui->checkBoxUseGit->isChecked());
00223     QtPassSettings::setUseOtp(ui->checkBoxUseOtp->isChecked());
00224     QtPassSettings::setUseQrencode(ui->checkBoxUseQrencode->isChecked());
00225     QtPassSettings::setPwgenExecutable(ui->pwgenPath->text());
00226     QtPassSettings::setUsePwgen(ui->checkBoxUsePwgen->isChecked());
00227     QtPassSettings::setAvoidCapitals(ui->checkBoxAvoidCapitals->isChecked());
00228     QtPassSettings::setAvoidNumbers(ui->checkBoxAvoidNumbers->isChecked());

```

```

00229     QtPassSettings::setLessRandom(ui->checkBoxLessRandom->isChecked());
00230     QtPassSettings::setUseSymbols(ui->checkBoxUseSymbols->isChecked());
00231     QtPassSettings::setPasswordConfiguration(getPasswordConfiguration());
00232     QtPassSettings::setUseTemplate(ui->checkBoxUseTemplate->isChecked());
00233     QtPassSettings::setPassTemplate(ui->plainTextEditTemplate->toPlainText());
00234     QtPassSettings::setTemplateAllFields(
00235         ui->checkBoxTemplateAllFields->isChecked());
00236     QtPassSettings::setAutoPush(ui->checkBoxAutoPush->isChecked());
00237     QtPassSettings::setAutoPull(ui->checkBoxAutoPull->isChecked());
00238     QtPassSettings::setAlwaysOnTop(ui->checkBoxAlwaysOnTop->isChecked());
00239
00240     QtPassSettings::setVersion(VERSION);
00241 }
00242
00243 void ConfigDialog::on_autodetectButton_clicked() {
00244     QString pass = Util::findBinaryInPath("pass");
00245     if (!pass.isEmpty())
00246         ui->passPath->setText(pass);
00247     usePass(!pass.isEmpty());
00248     QString gpg = Util::findBinaryInPath("gpg2");
00249     if (gpg.isEmpty())
00250         gpg = Util::findBinaryInPath("gpg");
00251     if (!gpg.isEmpty())
00252         ui->gpgPath->setText(gpg);
00253     QString git = Util::findBinaryInPath("git");
00254     if (!git.isEmpty())
00255         ui->gitPath->setText(git);
00256     QString pwgen = Util::findBinaryInPath("pwgen");
00257     if (!pwgen.isEmpty())
00258         ui->pwgenPath->setText(pwgen);
00259 }
00260
00265 void ConfigDialog::on_radioButtonNative_clicked() { setGroupBoxState(); }
00266
00271 void ConfigDialog::on_radioButtonPass_clicked() { setGroupBoxState(); }
00272
00277 QStringList ConfigDialog::getSecretKeys() {
00278     QList<UserInfo> keys = QtPassSettings::getPass()->listKeys("", true);
00279     QStringList names;
00280
00281     if (keys.empty())
00282         return names;
00283
00284     foreach (const UserInfo &sec, keys)
00285         names << sec.name;
00286
00287     return names;
00288 }
00289
00293 void ConfigDialog::setGroupBoxState() {
00294     bool state = ui->radioButtonPass->isChecked();
00295     ui->groupBoxNative->setEnabled(!state);
00296     ui->groupBoxPass->setEnabled(state);
00297 }
00298
00303 QString ConfigDialog::selectExecutable() {
00304     QFileDialog dialog(this);
00305     dialog.setFileMode(QFileDialog::ExistingFile);
00306     dialog.setOption(QFileDialog::ReadOnly);
00307     if (dialog.exec())
00308         return dialog.selectedFiles().constFirst();
00309
00310     return QString();
00311 }
00312
00317 QString ConfigDialog::selectFolder() {
00318     QFileDialog dialog(this);
00319     dialog.setFileMode(QFileDialog::Directory);
00320     dialog.setFilter(QDir::NoFilter);
00321     dialog.setOption(QFileDialog::ShowDirsOnly);
00322     if (dialog.exec())
00323         return dialog.selectedFiles().constFirst();
00324
00325     return QString();
00326 }
00327
00332 void ConfigDialog::on_toolButtonGit_clicked() {
00333     QString git = selectExecutable();
00334     bool state = !git.isEmpty();
00335     if (state) {
00336         ui->gitPath->setText(git);
00337     } else {
00338         useGit(false);
00339     }
00340
00341     ui->checkBoxUseGit->setEnabled(state);
00342 }

```

```

00343
00347 void ConfigDialog::on_toolButtonGpg_clicked() {
00348     QString gpg = selectExecutable();
00349     if (!gpg.isEmpty())
00350         ui->gpgPath->setText(gpg);
00351 }
00352
00356 void ConfigDialog::on_toolButtonPass_clicked() {
00357     QString pass = selectExecutable();
00358     if (!pass.isEmpty())
00359         ui->passPath->setText(pass);
00360 }
00361
00366 void ConfigDialog::on_toolButtonStore_clicked() {
00367     QString store = selectFolder();
00368     if (!store.isEmpty()) // TODO(annejan) call check
00369         ui->storePath->setText(store);
00370 }
00371
00376 void ConfigDialog::on_comboBoxClipboard_activated(int index) {
00377     bool state = index > 0;
00378
00379     ui->checkBoxSelection->setEnabled(state);
00380     ui->checkBoxAutoclear->setEnabled(state);
00381     ui->checkBoxHidePassword->setEnabled(state);
00382     ui->checkBoxHideContent->setEnabled(state);
00383     if (state) {
00384         ui->spinBoxAutoclearSeconds->setEnabled(ui->checkBoxAutoclear->isChecked());
00385         ui->labelSeconds->setEnabled(ui->checkBoxAutoclear->isChecked());
00386     } else {
00387         ui->spinBoxAutoclearSeconds->setEnabled(false);
00388         ui->labelSeconds->setEnabled(false);
00389     }
00390 }
00391
00396 void ConfigDialog::on_checkBoxAutoclearPanel_clicked() {
00397     bool state = ui->checkBoxAutoclearPanel->isChecked();
00398     ui->spinBoxAutoclearPanelSeconds->setEnabled(state);
00399     ui->labelPanelSeconds->setEnabled(state);
00400 }
00401
00407 void ConfigDialog::useSelection(bool useSelection) {
00408     ui->checkBoxSelection->setChecked(useSelection);
00409     on_checkBoxSelection_clicked();
00410 }
00411
00417 void ConfigDialog::useAutoclear(bool useAutoclear) {
00418     ui->checkBoxAutoclear->setChecked(useAutoclear);
00419     on_checkBoxAutoclear_clicked();
00420 }
00421
00427 void ConfigDialog::useAutoclearPanel(bool useAutoclearPanel) {
00428     ui->checkBoxAutoclearPanel->setChecked(useAutoclearPanel);
00429     on_checkBoxAutoclearPanel_clicked();
00430 }
00431
00436 void ConfigDialog::on_checkBoxSelection_clicked() {
00437     on_comboBoxClipboard_activated(ui->comboBoxClipboard->currentIndex());
00438 }
00439
00444 void ConfigDialog::on_checkBoxAutoclear_clicked() {
00445     on_comboBoxClipboard_activated(ui->comboBoxClipboard->currentIndex());
00446 }
00447
00455 void ConfigDialog::genKey(QString batch, QDialog *dialog) {
00456     mainWindow->generateKeyPair(batch, dialog);
00457 }
00458
00465 void ConfigDialog::setProfiles(QHash<QString, QHash<QString, QString> profiles,
00466                                QString currentProfile) {
00467     // dbg()« profiles;
00468     if (profiles.contains("")) {
00469         profiles.remove("");
00470         // remove weird "" key value pairs
00471     }
00472
00473     ui->profileTable->setRowCount(profiles.count());
00474     QHashIterator<QString, QHash<QString, QString> i(profiles);
00475     int n = 0;
00476     while (i.hasNext()) {
00477         i.next();
00478         if (!i.value().isEmpty() && !i.key().isEmpty()) {
00479             ui->profileTable->setItem(n, 0, new QTableWidgetItem(i.key()));
00480             ui->profileTable->setItem(n, 1,
00481                                     new QTableWidgetItem(i.value().value("path")));
00482             ui->profileTable->setItem(
00483                 n, 2, new QTableWidgetItem(i.value().value("signingKey")));

```



```

00484         // dbg()« "naam:" + i.key();
00485         if (i.key() == currentProfile)
00486             ui->profileTable->selectRow(n);
00487     }
00488     ++n;
00489 }
00490 }
00491
00496 QHash<QString, QHash<QString, QString> ConfigDialog::getProfiles() {
00497     QHash<QString, QHash<QString, QString> profiles;
00498     // Check?
00499     for (int i = 0; i < ui->profileTable->rowCount(); ++i) {
00500         QHash<QString, QString> profile;
00501         QTableWidgetItem *pathItem = ui->profileTable->item(i, 1);
00502         if (nullptr != pathItem) {
00503             QTableWidgetItem *item = ui->profileTable->item(i, 0);
00504             if (item == nullptr) {
00505                 continue;
00506             }
00507             profile["path"] = pathItem->text();
00508             QTableWidgetItem *signingKeyItem = ui->profileTable->item(i, 2);
00509             if (nullptr != signingKeyItem) {
00510                 profile["signingKey"] = signingKeyItem->text();
00511             }
00512             profiles.insert(item->text(), profile);
00513         }
00514     }
00515     return profiles;
00516 }
00517
00521 void ConfigDialog::on_addButton_clicked() {
00522     int n = ui->profileTable->rowCount();
00523     ui->profileTable->insertRow(n);
00524     ui->profileTable->setItem(n, 0, new QTableWidgetItem());
00525     ui->profileTable->setItem(n, 1, new QTableWidgetItem(ui->storePath->text()));
00526     ui->profileTable->setItem(n, 2, new QTableWidgetItem());
00527     ui->profileTable->selectRow(n);
00528     ui->deleteButton->setEnabled(true);
00529
00530     validate();
00531 }
00532
00536 void ConfigDialog::on_deleteButton_clicked() {
00537     QSet<int> selectedRows; // we use a set to prevent doubles
00538     QList<QTableWidgetItem*> itemList = ui->profileTable->selectedItems();
00539     if (itemList.count() == 0) {
00540         QMessageBox::warning(this, tr("No profile selected"),
00541                               tr("No profile selected to delete"));
00542         return;
00543     }
00544     QTableWidgetItem *item;
00545     foreach (item, itemList)
00546         selectedRows.insert(item->row());
00547     // get a list, and sort it big to small
00548     QList<int> rows = selectedRows.values();
00549     std::sort(rows.begin(), rows.end());
00550     // now actually do the removing:
00551     foreach (int row, rows)
00552         ui->profileTable->removeRow(row);
00553     if (ui->profileTable->rowCount() < 1)
00554         ui->deleteButton->setEnabled(false);
00555
00556     validate();
00557 }
00558
00565 void ConfigDialog::criticalMessage(const QString &title, const QString &text) {
00566     QMessageBox::critical(this, title, text, QMessageBox::Ok, QMessageBox::Ok);
00567 }
00568
00569 bool ConfigDialog::isQencodeAvailable() {
00570     #ifdef Q_OS_WIN
00571         return false;
00572     #else
00573         QProcess which;
00574         which.start("which", QStringList() << "qencode");
00575         which.waitForFinished();
00576         QtPassSettings::setQencodeExecutable(
00577             which.readAllStandardOutput().trimmed());
00578         return which.exitCode() == 0;
00579     #endif
00580 }
00581
00582 bool ConfigDialog::isPassOtpAvailable() {
00583     #ifdef Q_OS_WIN
00584         return false;
00585     #else
00586         return true;

```

```

00587 #endif
00588 }
00589
00594 void ConfigDialog::wizard() {
00595     Util::checkConfig();
00596     on_autodetectButton_clicked();
00597     bool clean = false;
00598
00599     QString gpg = ui->gpgPath->text();
00600     if (!gpg.startsWith("wsl ") && !QFile(gpg).exists()) {
00601         criticalMessage(
00602             tr("GnuPG not found"),
00603 #ifdef Q_OS_WIN
00604 #ifdef WINSTORE
00605             tr("Please install GnuPG on your system.<br>Install "
00606                 "<strong>Ubuntu</strong> from the Microsoft Store to get it.<br>"
00607                 "If you already did so, make sure you started it once and<br>"
00608                 "click \"Autodetect\" in the next dialog.")
00609 #else
00610             tr("Please install GnuPG on your system.<br>Install "
00611                 "<strong>Ubuntu</strong> from the Microsoft Store<br>or <a "
00612                 "href=\"https://www.gnupg.org/download/#sec-1-2\">download</a> it "
00613                 "from GnuPG.org")
00614 #endif
00615 #else
00616             tr("Please install GnuPG on your system.<br>Install "
00617                 "<strong>gpg</strong> using your favorite package manager<br>or "
00618                 "<a "
00619                 "href=\"https://www.gnupg.org/download/#sec-1-2\">download</a> it "
00620                 "from GnuPG.org")
00621 #endif
00622         );
00623         clean = true;
00624     }
00625
00626     QStringList names = getSecretKeys();
00627
00628 #ifdef QT_DEBUG
00629     dbg() << names;
00630 #endif
00631
00632     if ((gpg.startsWith("wsl ") || QFile(gpg).exists()) && names.empty()) {
00633         KeygenDialog d(this);
00634         if (!d.exec())
00635             return;
00636     }
00637
00638     QString passStore = ui->storePath->text();
00639
00640     if (!QFile(passStore).exists()) {
00641         // TODO(annejan) pass version?
00642         if (QMessageBox::question(
00643             this, tr("Create password-store?"),
00644             tr("Would you like to create a password-store at %1?")
00645                 .arg(passStore),
00646             QMessageBox::Yes | QMessageBox::No) == QMessageBox::Yes) {
00647             QDir().mkdir(passStore);
00648 #ifdef Q_OS_WIN
00649             SetFileAttributes(passStore.toStdWString().c_str(),
00650                 FILE_ATTRIBUTE_HIDDEN);
00651 #endif
00652             if (ui->checkBoxUseGit->isChecked())
00653                 emit mainWindow->passGitInitNeeded();
00654             mainWindow->userDialog(passStore);
00655         }
00656     }
00657
00658     if (!QFile(QDir(passStore).filePath(".gpg-id")).exists()) {
00659 #ifdef QT_DEBUG
00660         dbg() << ".gpg-id file does not exist";
00661 #endif
00662         if (!clean) {
00663             criticalMessage(tr("Password store not initialised"),
00664                 tr("The folder %1 doesn't seem to be a password store or "
00665                     "is not yet initialised.")
00666                     .arg(passStore));
00667         }
00668         while (!QFile(passStore).exists()) {
00669             on_toolButtonStore_clicked();
00670             // allow user to cancel
00671             if (passStore == ui->storePath->text())
00672                 return;
00673             passStore = ui->storePath->text();
00674         }
00675         if (!QFile(passStore + ".gpg-id").exists()) {
00676 #ifdef QT_DEBUG
00677             dbg() << ".gpg-id file still does not exist :/";

```

```

00678 #endif
00679 // appears not to be store
00680 // init yes / no ?
00681 mainWindow->userDialog(passStore);
00682 }
00683 }
00684
00685 ui->checkBoxHidePassword->setCheckState(Qt::Checked);
00686 }
00687
00693 void ConfigDialog::useTrayIcon(bool useSystray) {
00694     if (QSystemTrayIcon::isSystemTrayAvailable()) {
00695         ui->checkBoxUseTrayIcon->setChecked(useSystray);
00696         ui->checkBoxHideOnClose->setEnabled(useSystray);
00697         ui->checkBoxStartMinimized->setEnabled(useSystray);
00698
00699         if (!useSystray) {
00700             ui->checkBoxHideOnClose->setChecked(false);
00701             ui->checkBoxStartMinimized->setChecked(false);
00702         }
00703     }
00704 }
00705
00710 void ConfigDialog::on_checkBoxUseTrayIcon_clicked() {
00711     bool state = ui->checkBoxUseTrayIcon->isChecked();
00712     ui->checkBoxHideOnClose->setEnabled(state);
00713     ui->checkBoxStartMinimized->setEnabled(state);
00714 }
00715
00720 void ConfigDialog::closeEvent(QCloseEvent *event) {
00721     // TODO(annejan) save window size or something?
00722     event->accept();
00723 }
00724
00729 void ConfigDialog::useGit(bool useGit) {
00730     ui->checkBoxUseGit->setChecked(useGit);
00731     on_checkBoxUseGit_clicked();
00732 }
00733
00738 void ConfigDialog::useOtp(bool useOtp) {
00739     ui->checkBoxUseOtp->setChecked(useOtp);
00740 }
00741
00746 void ConfigDialog::useQrencode(bool useQrencode) {
00747     ui->checkBoxUseQrencode->setChecked(useQrencode);
00748 }
00749
00754 void ConfigDialog::on_checkBoxUseGit_clicked() {
00755     ui->checkBoxAddGPID->setEnabled(ui->checkBoxUseGit->isChecked());
00756     ui->checkBoxAutoPull->setEnabled(ui->checkBoxUseGit->isChecked());
00757     ui->checkBoxAutoPush->setEnabled(ui->checkBoxUseGit->isChecked());
00758 }
00759
00764 void ConfigDialog::on_toolButtonPwgen_clicked() {
00765     QString pwgen = selectExecutable();
00766     if (!pwgen.isEmpty()) {
00767         ui->pwgenPath->setText(pwgen);
00768         ui->checkBoxUsePwgen->setEnabled(true);
00769     } else {
00770         ui->checkBoxUsePwgen->setEnabled(false);
00771         ui->checkBoxUsePwgen->setChecked(false);
00772     }
00773 }
00774
00780 void ConfigDialog::setPwgenPath(QString pwgen) {
00781     ui->pwgenPath->setText(pwgen);
00782     if (pwgen.isEmpty()) {
00783         ui->checkBoxUsePwgen->setChecked(false);
00784         ui->checkBoxUsePwgen->setEnabled(false);
00785     }
00786     on_checkBoxUsePwgen_clicked();
00787 }
00788
00793 void ConfigDialog::on_checkBoxUsePwgen_clicked() {
00794     bool usePwgen = ui->checkBoxUsePwgen->isChecked();
00795     ui->checkBoxAvoidCapitals->setEnabled(usePwgen);
00796     ui->checkBoxAvoidNumbers->setEnabled(usePwgen);
00797     ui->checkBoxLessRandom->setEnabled(usePwgen);
00798     ui->checkBoxUseSymbols->setEnabled(usePwgen);
00799     ui->lineEditPasswordChars->setEnabled(!usePwgen);
00800     ui->labelPasswordChars->setEnabled(!usePwgen);
00801     ui->passwordCharTemplateSelector->setEnabled(!usePwgen);
00802 }
00803
00811 void ConfigDialog::usePwgen(bool usePwgen) {
00812     if (ui->pwgenPath->text().isEmpty())
00813         usePwgen = false;

```

```

00814     ui->checkBoxUsePwgen->setChecked(usePwgen);
00815     on_checkBoxUsePwgen_clicked();
00816 }
00817
00818 void ConfigDialog::setPasswordConfiguration(
00819     const PasswordConfiguration &config) {
00820     ui->spinBoxPasswordLength->setValue(config.length);
00821     ui->passwordCharTemplateSelector->setCurrentIndex(config.selected);
00822     if (config.selected != PasswordConfiguration::CUSTOM)
00823         ui->lineEditPasswordChars->setEnabled(false);
00824     ui->lineEditPasswordChars->setText(config.Characters[config.selected]);
00825 }
00826
00827 PasswordConfiguration ConfigDialog::getPasswordConfiguration() {
00828     PasswordConfiguration config;
00829     config.length = ui->spinBoxPasswordLength->value();
00830     config.selected = static_cast<PasswordConfiguration::characterSet>(
00831         ui->passwordCharTemplateSelector->currentIndex());
00832     config.Characters[PasswordConfiguration::CUSTOM] =
00833         ui->lineEditPasswordChars->text();
00834     return config;
00835 }
00836
00843 void ConfigDialog::on_passwordCharTemplateSelector_activated(int index) {
00844     ui->lineEditPasswordChars->setText(
00845         QtPassSettings::getPasswordConfiguration().Characters[index]);
00846     if (index == 3) {
00847         ui->lineEditPasswordChars->setEnabled(true);
00848     } else {
00849         ui->lineEditPasswordChars->setEnabled(false);
00850     }
00851 }
00852
00857 void ConfigDialog::on_checkBoxUseTemplate_clicked() {
00858     ui->plainTextEditTemplate->setEnabled(ui->checkBoxUseTemplate->isChecked());
00859     ui->checkBoxTemplateAllFields->setEnabled(
00860         ui->checkBoxUseTemplate->isChecked());
00861 }
00862
00863 void ConfigDialog::on_ProfileTableWidgetItemChanged(QTableWidgetItem *item) {
00864     validate(item);
00865 }
00866
00871 void ConfigDialog::useTemplate(bool useTemplate) {
00872     ui->checkBoxUseTemplate->setChecked(useTemplate);
00873     on_checkBoxUseTemplate_clicked();
00874 }

```

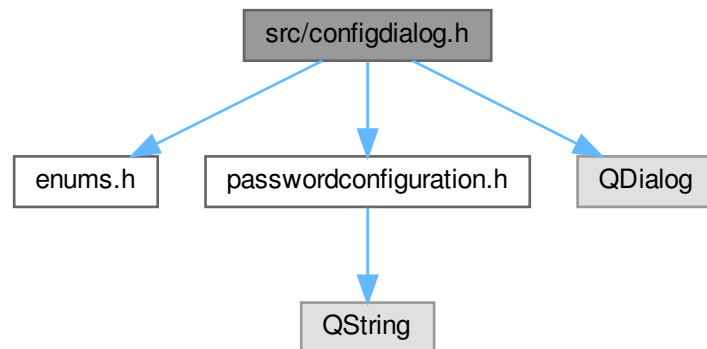
14.10 src/configdialog.h File Reference

```

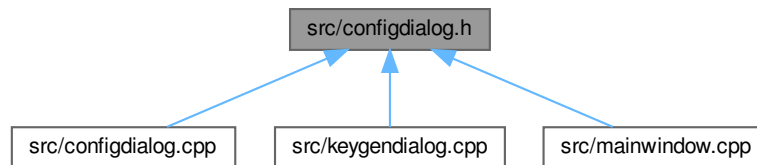
#include "enums.h"
#include "passwordconfiguration.h"
#include <QDialog>

```

Include dependency graph for configdialog.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [ConfigDialog](#)
The [ConfigDialog](#) handles the configuration interface.

Namespaces

- namespace [Ui](#)

14.11 configdialog.h

[Go to the documentation of this file.](#)

```
00001 #ifndef CONFIGDIALOG_H_
00002 #define CONFIGDIALOG_H_
00003
00004 #include "enums.h"
00005 #include "passwordconfiguration.h"
00006
```

```

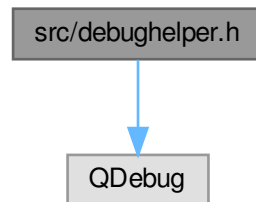
00007 #include <QDialog>
00008
00009 namespace Ui {
00010 struct UserInfo;
00011
00012 class ConfigDialog;
00013 } // namespace Ui
00014
00021 class MainWindow;
00022 class QCloseEvent;
00023 class QTableWidgetItem;
00024 class ConfigDialog : public QDialog {
00025     Q_OBJECT
00026
00027 public:
00028     explicit ConfigDialog(MainWindow *parent);
00029     ~ConfigDialog();
00030
00031     void useSelection(bool useSelection);
00032     void useAutoclear(bool useAutoclear);
00033     void useAutoclearPanel(bool useAutoclearPanel);
00034     QHash<QString, QHash<QString, QString> getProfiles();
00035     void wizard();
00036     void genKey(QString, QDialog *);
00037     void useTrayIcon(bool useSystray);
00038     void useGit(bool useGit);
00039     void useOtp(bool useOtp);
00040     void useQrencode(bool useQrencode);
00041     void setPwgenPath(QString);
00042     void usePwgen(bool usePwgen);
00043     void setPasswordConfiguration(const PasswordConfiguration &config);
00044     PasswordConfiguration getPasswordConfiguration();
00045     void useTemplate(bool useTemplate);
00046
00047 protected:
00048     void closeEvent(QCloseEvent *event);
00049
00050 private slots:
00051     void on_accepted();
00052     void on_autodetectButton_clicked();
00053     void on_radioButtonNative_clicked();
00054     void on_radioButtonPass_clicked();
00055     void on_toolButtonGit_clicked();
00056     void on_toolButtonGpg_clicked();
00057     void on_toolButtonPwgen_clicked();
00058     void on_toolButtonPass_clicked();
00059     void on_toolButtonStore_clicked();
00060     void on_comboBoxClipboard_activated(int);
00061     void on_passwordCharTemplateSelector_activated(int);
00062     void on_checkBoxSelection_clicked();
00063     void on_checkBoxAutoclear_clicked();
00064     void on_checkBoxAutoclearPanel_clicked();
00065     void on_addButton_clicked();
00066     void on_deleteButton_clicked();
00067     void on_checkBoxUseTrayIcon_clicked();
00068     void on_checkBoxUseGit_clicked();
00069     void on_checkBoxUsePwgen_clicked();
00070     void on_checkBoxUseTemplate_clicked();
00071     void on_profileTableWidgetItemChanged(QTableWidgetItem *item);
00072
00073 private:
00074     QScopedPointer<Ui::ConfigDialog> ui;
00075
00076     QStringList getSecretKeys();
00077
00078     void setGitPath(QString);
00079     void setProfiles(QHash<QString, QHash<QString, QString>, QString);
00080     void usePass(bool usePass);
00081
00082     void setGroupBoxState();
00083     QString selectExecutable();
00084     QString selectFolder();
00085     // QMessageBox::critical with hack to avoid crashes with
00086     // Qt 5.4.1 when QApplication::exec was not yet called
00087     void criticalMessage(const QString &title, const QString &text);
00088
00089     bool isPassOtpAvailable();
00090     bool isQrencodeAvailable();
00091     void validate(QTableWidgetItem *item = nullptr);
00092
00093     MainWindow *mainWindow;
00094 };
00095
00096 #endif // CONFIGDIALOG_H_

```

14.12 src/debughelper.h File Reference

```
#include <QDebug>
```

Include dependency graph for debughelper.h:



Macros

- `#define dbg() qDebug() << __FILE__ ":" << __LINE__`

14.12.1 Macro Definition Documentation

14.12.1.1 dbg

```
#define dbg( ) qDebug() << __FILE__ ":" << __LINE__
```

Definition at line 7 of file [debughelper.h](#).

14.13 debughelper.h

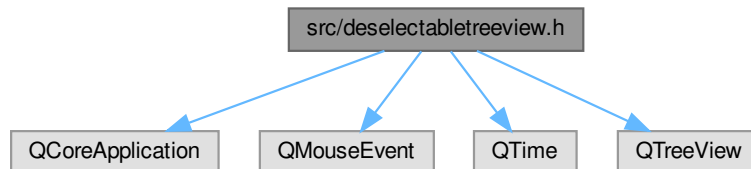
[Go to the documentation of this file.](#)

```
00001 #ifndef DEBUG_H
00002 #define DEBUG_H
00003
00004 #include <QDebug>
00005
00006 // this is soooooo ugly...
00007 #define dbg() qDebug() << __FILE__ ":" << __LINE__
00008
00009 #endif // DEBUG_H
```

14.14 src/deselectabletreeview.h File Reference

```
#include <QCoreApplication>
#include <QMouseEvent>
#include <QTime>
#include <QTreeView>
```

Include dependency graph for deselectabletreeview.h:



Classes

- class [DeselectableTreeView](#)

The [DeselectableTreeView](#) class loosely based on <http://stackoverflow.com/questions/2761284/> thanks to Yassir Ennazk.

14.15 deselectabletreeview.h

[Go to the documentation of this file.](#)

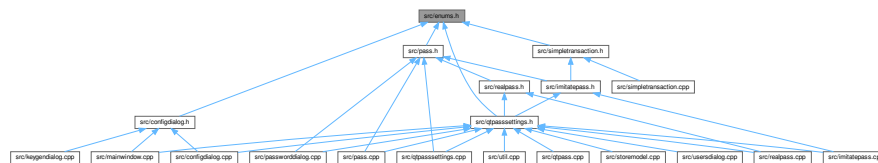
```
00001 #ifndef DESELECTABLETREEVIEW_H
00002 #define DESELECTABLETREEVIEW_H
00003
00004 #include <QCoreApplication>
00005 #include <QMouseEvent>
00006 #include <QTime>
00007 #include <QTreeView>
00008
00014 class DeselectableTreeView : public QTreeView {
00015     Q_OBJECT
00016
00017 public:
00022     DeselectableTreeView(QWidget *parent) : QTreeView(parent) {}
00026     virtual ~DeselectableTreeView() {}
00027
00028 signals:
00032     void emptyClicked();
00033
00034 private:
00035     bool doubleClickHappened = false;
00036     bool clickSelected = false;
00037
00042     virtual void mousePressEvent(QMouseEvent *event) {
00043         clickSelected = selectionModel()->isSelected(indexAt(event->pos()));
00044         QTreeView::mousePressEvent(event);
00045     }
00046
00051     void mouseReleaseEvent(QMouseEvent *event) {
00052         doubleClickHappened = false;
00053         // The timer is to distinguish between single and double click
00054         QTime dieTime = QTime::currentTime().addMSecs(200);
00055         while (QTime::currentTime() < dieTime)
00056             QCoreApplication::processEvents(QEventLoop::AllEvents, 100);
00057         // could this be done nicer?
00058         if (!doubleClickHappened && clickSelected) {
```



```
00059     QModelIndex item = indexAt(event->pos());
00060     bool selected = selectionModel()->isSelected(indexAt(event->pos()));
00061     if ((item.row() == -1 && item.column() == -1) || selected) {
00062         clearSelection();
00063         const QModelIndex index;
00064         selectionModel()->setCurrentIndex(index, QItemSelectionModel::Select);
00065         emit emptyClicked();
00066     } else {
00067         QTreeView::mouseReleaseEvent(event);
00068     }
00069 } else {
00070     QTreeView::mouseReleaseEvent(event);
00071 }
00072 clickSelected = false;
00073 }
00074
00075 void mouseDoubleClickEvent(QMouseEvent *event) {
00076     doubleClickHappened = true;
00077     QTreeView::mouseDoubleClickEvent(event);
00078 }
00079 };
00080
00081 #endif // DESELECTABLETREEVIEW_H
```

14.16 src/enums.h File Reference

This graph shows which files directly or indirectly include this file:



Namespaces

- namespace **Enums**
Enumerators for configuration and runtime items.

Enumerations

- enum Enums::clipboardType { Enums::CLIPBOARD_NEVER = 0 , Enums::CLIPBOARD_ALWAYS = 1 , Enums::CLIPBOARD_ON_DEMAND = 2 }
- enum Enums::PROCESS { Enums::GIT_INIT = 0 , Enums::GIT_ADD , Enums::GIT_COMMIT , Enums::GIT_RM , Enums::GIT_PULL , Enums::GIT_PUSH , Enums::PASS_SHOW , Enums::PASS_INSERT , Enums::PASS_REMOVE , Enums::PASS_INIT , Enums::GPG_GENKEYS , Enums::PASS_MOVE , Enums::PASS_COPY , Enums::GIT_MOVE , Enums::GIT_COPY , Enums::PROCESS_COUNT , Enums::INVALID , Enums::PASS_OTP_GENERATE }

14.17 enums.h

[Go to the documentation of this file.](#)

```

00001 #ifndef ENUMS_H
00002 #define ENUMS_H
00003
00008 namespace Enums {
00009
00010 enum clipBoardType {
00011     CLIPBOARD_NEVER = 0,
00012     CLIPBOARD_ALWAYS = 1,
00013     CLIPBOARD_ON_DEMAND = 2
00014 };
00015
00016 enum PROCESS {
00017     GIT_INIT = 0,
00018     GIT_ADD,
00019     GIT_COMMIT,
00020     GIT_RM,
00021     GIT_PULL,
00022     GIT_PUSH,
00023     PASS_SHOW,
00024     PASS_INSERT,
00025     PASS_REMOVE,
00026     PASS_INIT,
00027     GPG_GENKEYS,
00028     PASS_MOVE,
00029     PASS_COPY,
00030     GIT_MOVE,
00031     GIT_COPY,
00032     PROCESS_COUNT,
00033     INVALID,
00034     PASS_OTP_GENERATE,
00035 };
00036
00037 } // namespace Enums
00038
00039 #endif // ENUMS_H

```

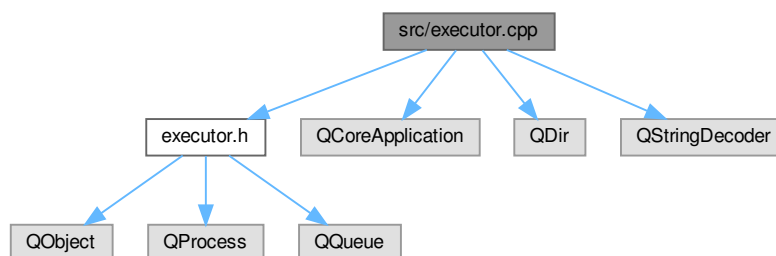
14.18 src/executor.cpp File Reference

```

#include "executor.h"
#include <QCoreApplication>
#include <QDir>
#include <QStringDecoder>

```

Include dependency graph for executor.cpp:



14.19 executor.cpp

[Go to the documentation of this file.](#)

```

00001 #include "executor.h"
00002 #include <QCoreApplication>
00003 #include <QDir>
00004 #if QT_VERSION < QT_VERSION_CHECK(6, 0, 0)
00005 #include <QTextCodec>
00006 #endif
00007 #if QT_VERSION >= QT_VERSION_CHECK(6, 0, 0)
00008 #include <QStringDecoder>
00009 #endif
00010
00011 #ifdef QT_DEBUG
00012 #include "debughelper.h"
00013 #endif
00014
00019 Executor::Executor(QObject *parent) : QObject(parent), running(false) {
00020     connect(&m_process,
00021             static_cast<void (QProcess::*)(int, QProcess::ExitStatus)>(
00022                 &QProcess::finished),
00023             this,
00024             static_cast<void (Executor::*)(int, QProcess::ExitStatus)>(
00025                 &Executor::finished));
00026     connect(&m_process, &QProcess::started, this, &Executor::starting);
00027 }
00028
00032 void Executor::executeNext() {
00033     if (!running) {
00034         if (!m_execQueue.isEmpty()) {
00035             const execQueueItem &i = m_execQueue.head();
00036             running = true;
00037             if (!i.workingDir.isEmpty())
00038                 m_process.setWorkingDirectory(i.workingDir);
00039             if (i.app.startsWith("wsl ")) {
00040                 QStringList tmp = i.args;
00041                 QString app = i.app;
00042                 tmp.prepend(app.remove(0, 4));
00043                 m_process.start("wsl", tmp);
00044             } else
00045                 m_process.start(i.app, i.args);
00046             if (!i.input.isEmpty()) {
00047                 m_process.waitForStarted(-1);
00048                 QByteArray data = i.input.toUtf8();
00049                 if (m_process.write(data) != data.length()) {
00050 #ifdef QT_DEBUG
00051                     dbg() << "Not all data written to process:" << i.id << " " << i.app;
00052 #endif
00053                 }
00054             }
00055             m_process.closeWriteChannel();
00056         }
00057     }
00058 }
00059
00068 void Executor::execute(int id, const QString &app, const QStringList &args,
00069                        bool readStdout, bool readStderr) {
00070     execute(id, QString(), app, args, QString(), readStdout, readStderr);
00071 }
00072
00082 void Executor::execute(int id, const QString &workDir, const QString &app,
00083                        const QStringList &args, bool readStdout,
00084                        bool readStderr) {
00085     execute(id, workDir, app, args, QString(), readStdout, readStderr);
00086 }
00087
00097 void Executor::execute(int id, const QString &app, const QStringList &args,
00098                        QString input, bool readStdout, bool readStderr) {
00099     execute(id, QString(), app, args, input, readStdout, readStderr);
00100 }
00101
00113 void Executor::execute(int id, const QString &workDir, const QString &app,
00114                        const QStringList &args, QString input, bool readStdout,
00115                        bool readStderr) {
00116     // Happens a lot if e.g. git binary is not set.
00117     // This will result in bogus "QProcess::FailedToStart" messages,
00118     // also hiding legitimate errors from the gpg commands.
00119     if (app.isEmpty()) {
00120 #ifdef QT_DEBUG
00121         dbg() << "Trying to execute nothing...";
00122 #endif
00123         return;
00124     }
00125     QString appPath = app;
00126     if (!appPath.startsWith("wsl "))
00127         appPath =
00128             QDir(QCoreApplication::applicationDirPath()).absoluteFilePath(app);
00129     m_execQueue.push_back(
00130         {id, appPath, args, input, readStdout, readStderr, workDir});
00131     executeNext();

```

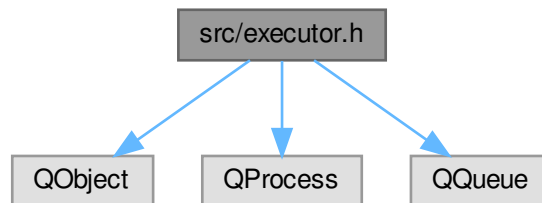
```

00132 }
00133
00144 static QString decodeAssumingUtf8(QByteArray in) {
00145     #if QT_VERSION < QT_VERSION_CHECK(6, 0, 0)
00146         QTextCodec *codec = QTextCodec::codecForName("UTF-8");
00147         QTextCodec::ConverterState state;
00148         QString out = codec->toUnicode(in.constData(), in.size(), &state);
00149         if (!state.invalidChars)
00150             return out;
00151         codec = QTextCodec::codecForUtfText(in);
00152         return codec->toUnicode(in);
00153     #else
00154         auto converter = QStringDecoder(QStringDecoder::Utf8);
00155         return converter(in);
00156     #endif
00157 }
00158
00171 int Executor::executeBlocking(QString app, const QStringList &args,
00172                               QString input, QString *process_out,
00173                               QString *process_err) {
00174     QProcess internal;
00175     if (app.startsWith("wsl ")) {
00176         QStringList tmp = args;
00177         tmp.prepend(app.remove(0, 4));
00178         internal.start("wsl", tmp);
00179     } else
00180         internal.start(app, args);
00181     if (!input.isEmpty()) {
00182         QByteArray data = input.toUtf8();
00183         internal.waitForStarted(-1);
00184         if (internal.write(data) != data.length()) {
00185             #ifdef QT_DEBUG
00186                 dbg() << "Not all input written:" << app;
00187             #endif
00188         }
00189         internal.closeWriteChannel();
00190     }
00191     internal.waitForFinished(-1);
00192     if (internal.exitStatus() == QProcess::NormalExit) {
00193         QString pout = decodeAssumingUtf8(internal.readAllStandardOutput());
00194         QString perr = decodeAssumingUtf8(internal.readAllStandardError());
00195         if (process_out != Q_NULLPTR)
00196             *process_out = pout;
00197         if (process_err != Q_NULLPTR)
00198             *process_err = perr;
00199         return internal.exitCode();
00200     }
00201     // TODO(bezet): emit error() ?
00202     return -1; // QProcess error code + qDebug error?
00203 }
00204
00213 int Executor::executeBlocking(QString app, const QStringList &args,
00214                               QString *process_out, QString *process_err) {
00215     return executeBlocking(app, args, QString(), process_out, process_err);
00216 }
00217
00223 void Executor::setEnvironment(const QStringList &env) {
00224     m_process.setEnvironment(env);
00225 }
00226
00233 int Executor::cancelNext() {
00234     if (running || m_execQueue.isEmpty())
00235         return -1; // TODO(bezet): definitely throw here
00236     return m_execQueue.dequeue().id;
00237 }
00238
00244 void Executor::finished(int exitCode, QProcess::ExitStatus exitStatus) {
00245     execQueueItem i = m_execQueue.dequeue();
00246     running = false;
00247     if (exitStatus == QProcess::NormalExit) {
00248         QString output, err;
00249         if (i.readStdout)
00250             output = decodeAssumingUtf8(m_process.readAllStandardOutput());
00251         if (i.readStderr || exitCode != 0) {
00252             err = decodeAssumingUtf8(m_process.readAllStandardError());
00253             if (exitCode != 0) {
00254                 #ifdef QT_DEBUG
00255                     dbg() << exitCode << err;
00256                 #endif
00257             }
00258         }
00259         emit finished(i.id, exitCode, output, err);
00260     }
00261     // else: emit crashed with ID, which may give a chance to recover ?
00262     executeNext();
00263 }

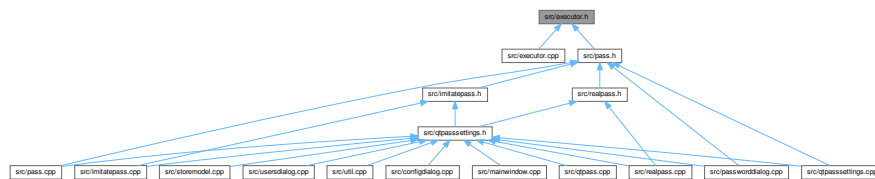
```

14.20 src/executor.h File Reference

```
#include <QObject>
#include <QProcess>
#include <QQueue>
Include dependency graph for executor.h:
```



This graph shows which files directly or indirectly include this file:



Classes

- class **Executor**

Executes external commands for handling password, git and other data.

14.21 executor.h

[Go to the documentation of this file.](#)

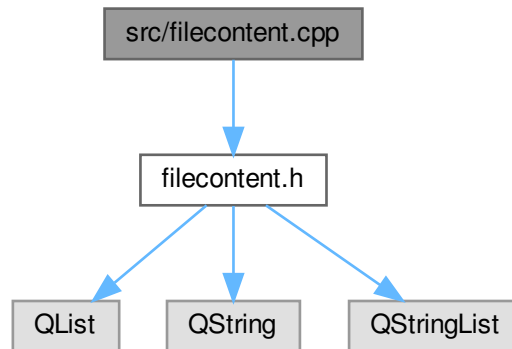
```
00001 #ifndef EXECUTOR_H
00002 #define EXECUTOR_H
00003
00004 #include <QObject>
00005 #include <QProcess>
00006 #include <QQueue>
00007
00012 class Executor : public QObject {
00013     Q_OBJECT
00014
00019     struct execQueueItem {
00023         int id;
00027         QString app;
00031         QStringList args;
00035         QString input;
00039         bool readStdout;
00045         bool readStderr;
```

```
00050     QString workingDir;
00051 };
00052
00053 QQueue<execQueueItem> m_execQueue;
00054 QProcess m_process;
00055 bool running;
00056 void executeNext();
00057
00058 public:
00059     explicit Executor(QObject *parent = 0);
00060
00061     void execute(int id, const QString &app, const QStringList &args,
00062                 bool readStdout, bool readStderr = true);
00063
00064     void execute(int id, const QString &workDir, const QString &app,
00065                 const QStringList &args, bool readStdout,
00066                 bool readStderr = true);
00067
00068     void execute(int id, const QString &app, const QStringList &args,
00069                 QString input = QString(), bool readStdout = false,
00070                 bool readStderr = true);
00071
00072     void execute(int id, const QString &workDir, const QString &app,
00073                 const QStringList &args, QString input = QString(),
00074                 bool readStdout = false, bool readStderr = true);
00075
00076     static int executeBlocking(QString app, const QStringList &args,
00077                                QString input = QString(),
00078                                QString *process_out = Q_NULLPTR,
00079                                QString *process_err = Q_NULLPTR);
00080
00081     static int executeBlocking(QString app, const QStringList &args,
00082                                QString *process_out,
00083                                QString *process_err = Q_NULLPTR);
00084
00085     void setEnvironment(const QStringList &env);
00086
00087     int cancelNext();
00088 private slots:
00089     void finished(int exitCode, QProcess::ExitStatus exitStatus);
00090 signals:
00099     void finished(int id, int exitCode, const QString &output,
0100                     const QString &errout);
0104     void starting();
0114     void error(int id, int exitCode, const QString &output,
0115               const QString &errout);
0116 };
0117
0118 #endif // EXECUTOR_H
```

14.22 src/filecontent.cpp File Reference

```
#include "filecontent.h"
```

Include dependency graph for filecontent.cpp:



14.23 filecontent.cpp

[Go to the documentation of this file.](#)

```

00001 #include "filecontent.h"
00002
00003 static bool isLineHidden(const QString &line) {
00004     return line.startsWith("otpauth://", Qt::CaseInsensitive);
00005 }
00006
00007 FileContent FileContent::parse(const QString &fileContent,
00008                               const QStringList &templateFields,
00009                               bool allFields) {
00010     QStringList lines = fileContent.split("\n");
00011     QString password = lines.takeFirst();
00012     QStringList remainingData, remainingDataDisplay;
00013     NamedValues namedValues;
00014     for (const QString &line : qAsConst(lines)) {
00015         if (line.contains(":")) {
00016             int colon = line.indexOf(':');
00017             QString name = line.left(colon);
00018             QString value = line.right(line.length() - colon - 1);
00019             if ((allFields &&
00020                 !value.startsWith(
00021                     "///")) // if value startswith // colon is probably from a url
00022                 || templateFields.contains(name)) {
00023                 namedValues.append({name.trimmed(), value.trimmed()});
00024                 continue;
00025             }
00026         }
00027         remainingData.append(line);
00028         if (!isLineHidden(line))
00029             remainingDataDisplay.append(line);
00030     }
00031     return FileContent(password, namedValues, remainingData.join("\n"),
00032                       remainingDataDisplay.join("\n"));
00033 }
00034
00035
00036 QString FileContent::getPassword() const { return this->password; }
00037
00038 NamedValues FileContent::getNamedValues() const { return this->namedValues; }
00039
00040 QString FileContent::getRemainingData() const { return this->remainingData; }
00041

```

```

00042 QString FileContent::getRemainingDataForDisplay() const {
00043     return this->remainingDataDisplay;
00044 }
00045
00046 FileContent::FileContent(const QString &password,
00047                          const NamedValues &namedValues,
00048                          const QString &remainingData,
00049                          const QString &remainingDataDisplay)
00050     : password(password), namedValues(namedValues),
00051       remainingData(remainingData), remainingDataDisplay(remainingDataDisplay) {
00052 }
00053
00054 NamedValues::NamedValues() : QList() {}
00055
00056 NamedValues::NamedValues(std::initializer_list<NamedValue> values)
00057     : QList(values) {}
00058
00059 QString NamedValues::takeValue(const QString &name) {
00060     for (int i = 0; i < length(); ++i) {
00061         if (at(i).name == name) {
00062             return takeAt(i).value;
00063         }
00064     }
00065     return QString();
00066 }

```

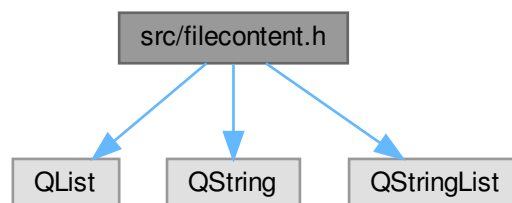
14.24 src/filecontent.h File Reference

```

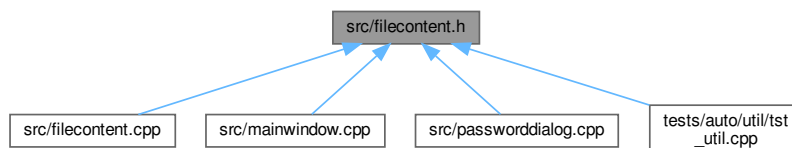
#include <QList>
#include <QString>
#include <QStringList>

```

Include dependency graph for filecontent.h:



This graph shows which files directly or indirectly include this file:



Classes

- struct [NamedValue](#)
- class [NamedValues](#)

The [NamedValues](#) class is mostly a list of [NamedValue](#) but also has a method to take a specific [NamedValue](#) pair out of the list.

- class [FileContent](#)

14.25 filecontent.h

[Go to the documentation of this file.](#)

```

00001 #ifndef FILECONTENT_H
00002 #define FILECONTENT_H
00003
00004 #include <QList>
00005 #include <QString>
00006 #include <QStringList>
00007
00008 struct NamedValue {
00009     QString name;
00010     QString value;
00011 };
00012
00017 class NamedValues : public QList<NamedValue> {
00018 public:
00019     NamedValues();
00020     NamedValues(std::initializer_list<NamedValue> values);
00021
00022     QString takeValue(const QString &name);
00023 };
00024
00025 class FileContent {
00026 public:
00045     static FileContent parse(const QString &fileContent,
00046                             const QStringList &templateFields, bool allFields);
00047
00051     QString getPassword() const;
00052
00057     NamedValues getNamedValues() const;
00058
00062     QString getRemainingData() const;
00063
00068     QString getRemainingDataForDisplay() const;
00069
00070 private:
00071     FileContent(const QString &password, const NamedValues &namedValues,
00072               const QString &remainingData,
00073               const QString &remainingDataDisplay);
00074
00075     QString password;
00076     NamedValues namedValues;
00077     QString remainingData, remainingDataDisplay;
00078 };
00079
00080 #endif // FILECONTENT_H

```

14.26 src/imitatepass.cpp File Reference

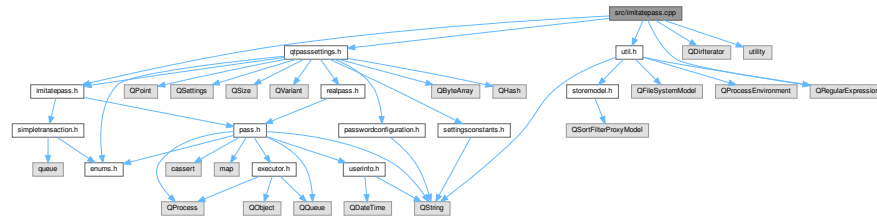
```

#include "imitatepass.h"
#include "qtpasssettings.h"
#include "util.h"
#include <QDirIterator>
#include <QRegularExpression>

```

```
#include <utility>
```

Include dependency graph for imitatepass.cpp:



14.27 imitatepass.cpp

[Go to the documentation of this file.](#)

```
00001 #include "imitatepass.h"
00002 #include "qtpasssettings.h"
00003 #include "util.h"
00004 #include <QDirIterator>
00005 #include <QRegularExpression>
00006 #include <utility>
00007
00008 #ifdef QT_DEBUG
00009 #include "debughelper.h"
00010 #endif
00011
00012 using namespace Enums;
00013
00014 ImitatePass::ImitatePass() = default;
00015
00016 static QString pgit(const QString &path) {
00017     if (!QtPassSettings::getGitExecutable().startsWith("wsl "))
00018         return path;
00019     QString res = "${wslpath " + path + "}";
00020     return res.replace('\\', '/');
00021 }
00022
00023 static QString pgpg(const QString &path) {
00024     if (!QtPassSettings::getGpgExecutable().startsWith("wsl "))
00025         return path;
00026     QString res = "${wslpath " + path + "}";
00027     return res.replace('\\', '/');
00028 }
00029
00030 void ImitatePass::GitInit() {
00031     executeGit(GIT_INIT, {"init", pgit(QtPassSettings::getPassStore())});
00032 }
00033
00034 void ImitatePass::GitPull() { executeGit(GIT_PULL, {"pull"}); }
00035
00036 void ImitatePass::GitPull_b() {
00037     exec.executeBlocking(QtPassSettings::getGitExecutable(), {"pull"});
00038 }
00039
00040 void ImitatePass::GitPush() {
00041     if (QtPassSettings::isUseGit()) {
00042         executeGit(GIT_PUSH, {"push"});
00043     }
00044 }
00045
00046 void ImitatePass::Show(QString file) {
00047     file = QtPassSettings::getPassStore() + file + ".gpg";
00048     QStringList args = {"-d", "--quiet", "--yes", "--no-encrypt-to",
00049                         "--batch", "--use-agent", pgpg(file)};
00050     executeGpg(PASS_SHOW, args);
00051 }
00052
00053 void ImitatePass::OtpGenerate(QString file) {
00054     #ifdef QT_DEBUG
00055         dbg() << "No OTP generation code for fake pass yet, attempting for file: " +
00056                 file;
00057     #else
00058         Q_UNUSED(file)
00059     #endif
00060 }
```

```

00082 }
00083
00091 void ImitatePass::Insert(QString file, QString newValue, bool overwrite) {
00092     file = file + ".gpg";
00093     QString gpgIdPath = Pass::getGpgIdPath(file);
00094     if (!verifyGpgIdFile(gpgIdPath)) {
00095         emit critical(tr("Check .gpgid file signature!"),
00096                     tr("Signature for %1 is invalid.").arg(gpgIdPath));
00097         return;
00098     }
00099     transactionHelper trans(this, PASS_INSERT);
00100     QStringList recipients = Pass::getRecipientList(file);
00101     if (recipients.isEmpty()) {
00102         // TODO(bezet): probably throw here
00103         emit critical(tr("Can not edit"),
00104                     tr("Could not read encryption key to use, .gpg-id "
00105                        "file missing or invalid.));
00106         return;
00107     }
00108     QStringList args = {"--batch", "-eq", "--output", pgpg(file)};
00109     for (auto &r : recipients) {
00110         args.append("-r");
00111         args.append(r);
00112     };
00113     if (overwrite)
00114         args.append("--yes");
00115     args.append("-");
00116     executeGpg(PASS_INSERT, args, newValue);
00117     if (!QtPassSettings::isUseWebDav() && QtPassSettings::isUseGit()) {
00118         // TODO(bezet) why not?
00119         if (!overwrite)
00120             executeGit(GIT_ADD, {"add", pgit(file)});
00121         QString path = QDir(QtPassSettings::getPassStore()).relativeFilePath(file);
00122         path.replace(Util::endsWithGpg(), "");
00123         QString msg =
00124             QString(overwrite ? "Edit" : "Add") + " for " + path + " using QtPass.";
00125         GitCommit(file, msg);
00126     }
00127 }
00128
00135 void ImitatePass::GitCommit(const QString &file, const QString &msg) {
00136     if (file.isEmpty())
00137         executeGit(GIT_COMMIT, {"commit", "-m", msg});
00138     else
00139         executeGit(GIT_COMMIT, {"commit", "-m", msg, "--", pgit(file)});
00140 }
00141
00145 void ImitatePass::Remove(QString file, bool isDir) {
00146     file = QtPassSettings::getPassStore() + file;
00147     transactionHelper trans(this, PASS_REMOVE);
00148     if (!isDir)
00149         file += ".gpg";
00150     if (QtPassSettings::isUseGit()) {
00151         executeGit(GIT_RM, {"rm", (isDir ? "-rf" : "-f"), pgit(file)});
00152         // TODO(bezet): commit message used to have pass-like file name inside(ie.
00153         // getFile(file, true)
00154         GitCommit(file, "Remove for " + file + " using QtPass.");
00155     } else {
00156         if (isDir) {
00157             QDir dir(file);
00158             dir.removeRecursively();
00159         } else
00160             QFile(file).remove();
00161     }
00162 }
00163
00171 void ImitatePass::Init(QString path, const QList<UserInfo> &users) {
00172     #if QT_VERSION >= QT_VERSION_CHECK(5, 15, 0)
00173     QStringList signingKeys =
00174         QtPassSettings::getPassSigningKey().split(" ", Qt::SkipEmptyParts);
00175     #else
00176     QStringList signingKeys =
00177         QtPassSettings::getPassSigningKey().split(" ", QString::SkipEmptyParts);
00178     #endif
00179     QString gpgIdSigFile = path + ".gpg-id.sig";
00180     bool addSigFile = false;
00181     if (!signingKeys.isEmpty()) {
00182         QString out;
00183         QStringList args =
00184             QStringList{"--status-fd=1", "--list-secret-keys"} + signingKeys;
00185         exec.executeBlocking(QtPassSettings::getGpgExecutable(), args, &out);
00186         bool found = false;
00187         for (auto &key : signingKeys) {
00188             if (out.contains("[GNUPG:] KEY_CONSIDERED " + key)) {
00189                 found = true;
00190                 break;
00191             }

```

```

00192     }
00193     if (!found) {
00194         emit critical(tr("No signing key!"),
00195             tr("None of the secret signing keys is available.\n"
00196                 "You will not be able to change the user list!"));
00197         return;
00198     }
00199     QFileInfo checkFile(gpgIdSigFile);
00200     if (!checkFile.exists() || !checkFile.isFile())
00201         addSigFile = true;
00202 }
00203
00204 QString gpgIdFile = path + ".gpg-id";
00205 QFile gpgId(gpgIdFile);
00206 bool addFile = false;
00207 transactionHelper trans(this, PASS_INIT);
00208 if (QtPassSettings::isAddGPGId(true)) {
00209     QFileInfo checkFile(gpgIdFile);
00210     if (!checkFile.exists() || !checkFile.isFile())
00211         addFile = true;
00212 }
00213 if (!gpgId.open(QIODevice::WriteOnly | QIODevice::Text)) {
00214     emit critical(tr("Cannot update"),
00215         tr("Failed to open .gpg-id for writing."));
00216     return;
00217 }
00218 bool secret_selected = false;
00219 foreach (const UserInfo &user, users) {
00220     if (user.enabled) {
00221         gpgId.write((user.key_id + "\n").toUtf8());
00222         secret_selected |= user.have_secret;
00223     }
00224 }
00225 gpgId.close();
00226 if (!secret_selected) {
00227     emit critical(
00228         tr("Check selected users!"),
00229         tr("None of the selected keys have a secret key available.\n"
00230             "You will not be able to decrypt any newly added passwords!"));
00231     return;
00232 }
00233
00234 if (!signingKeys.isEmpty()) {
00235     QStringList args;
00236     for (auto &key : signingKeys) {
00237         args.append(QStringList{"--default-key", key});
00238     }
00239     args.append(QStringList{"--yes", "--detach-sign", gpgIdFile});
00240     exec.executeBlocking(QtPassSettings::getGpgExecutable(), args);
00241     if (!verifyGpgIdFile(gpgIdFile)) {
00242         emit critical(tr("Check .gpgid file signature!"),
00243             tr("Signature for %1 is invalid.").arg(gpgIdFile));
00244         return;
00245     }
00246 }
00247
00248 if (!QtPassSettings::isUseWebDav() && QtPassSettings::isUseGit() &&
00249     !QtPassSettings::getGitExecutable().isEmpty()) {
00250     if (addFile)
00251         executeGit(GIT_ADD, {"add", pgid(gpgIdFile)});
00252     QString commitPath = gpgIdFile;
00253     commitPath.replace(Util::endsWithGpg(), "");
00254     GitCommit(gpgIdFile, "Added " + commitPath + " using QtPass.");
00255     if (!signingKeys.isEmpty()) {
00256         if (addSigFile)
00257             executeGit(GIT_ADD, {"add", pgid(gpgIdSigFile)});
00258         commitPath = gpgIdSigFile;
00259         commitPath.replace(QRegularExpression("\\.gpg$"), "");
00260         GitCommit(gpgIdSigFile, "Added " + commitPath + " using QtPass.");
00261     }
00262 }
00263 reencryptPath(path);
00264 }
00265
00271 bool ImitatePass::verifyGpgIdFile(const QString &file) {
00272     #if QT_VERSION >= QT_VERSION_CHECK(5, 15, 0)
00273     QStringList signingKeys =
00274         QtPassSettings::getPassSigningKey().split(" ", Qt::SkipEmptyParts);
00275     #else
00276     QStringList signingKeys =
00277         QtPassSettings::getPassSigningKey().split(" ", QString::SkipEmptyParts);
00278     #endif
00279     if (signingKeys.isEmpty())
00280         return true;
00281     QString out;
00282     QStringList args =
00283         QStringList{"--verify", "--status-fd=1", pgpg(file) + ".sig", pgpg(file)};

```

```

00284     exec.executeBlocking(QtPassSettings::getGpgExecutable(), args, &out);
00285     QRegularExpression re(
00286         "^[\\[GNUPG:\\] VALIDSIG ([A-F0-9]{40}) .* ([A-F0-9]{40})\\r?$",
00287         QRegularExpression::MultilineOption);
00288     QRegularExpressionMatch m = re.match(out);
00289     if (!m.hasMatch())
00290         return false;
00291     QStringList fingerprints = m.capturedTexts();
00292     fingerprints.removeFirst();
00293     for (auto &key : signingKeys) {
00294         if (fingerprints.contains(key))
00295             return true;
00296     }
00297     return false;
00298 }
00299
00300 bool ImitatePass::removeDir(const QString &dirName) {
00301     bool result = true;
00302     QDir dir(dirName);
00303
00304     if (dir.exists(dirName)) {
00305         Q_FOREACH (QFileInfo info,
00306             dir.entryInfoList(QDir::NoDotAndDotDot | QDir::System |
00307                 QDir::Hidden | QDir::AllDirs | QDir::Files,
00308                 QDir::DirsFirst)) {
00309             if (info.isDir())
00310                 result = removeDir(info.absoluteFilePath());
00311             else
00312                 result = QFile::remove(info.absoluteFilePath());
00313
00314             if (!result)
00315                 return result;
00316         }
00317         result = dir.rmdir(dirName);
00318     }
00319     return result;
00320 }
00321
00322 void ImitatePass::reencryptPath(const QString &dir) {
00323     emit statusMsg(tr("Re-encrypting from folder %1").arg(dir), 3000);
00324     emit startReencryptPath();
00325     if (QtPassSettings::isAutoPull()) {
00326         // TODO(bezet): move statuses inside actions?
00327         emit statusMsg(tr("Updating password-store"), 2000);
00328         GitPull_b();
00329     }
00330     QDir currentDir;
00331     QDirIterator gpgFiles(dir, QStringList() << "*.gpg", QDir::Files,
00332         QDirIterator::Subdirectories);
00333     QStringList gpgIdFilesVerified;
00334     QStringList gpgId;
00335     while (gpgFiles.hasNext()) {
00336         QString fileName = gpgFiles.next();
00337         if (gpgFiles.fileInfo().path() != currentDir.path()) {
00338             QString gpgIdPath = Pass::getGpgIdPath(fileName);
00339             if (!gpgIdFilesVerified.contains(gpgIdPath)) {
00340                 if (!verifyGpgIdFile(gpgIdPath)) {
00341                     emit critical(tr("Check .gpgid file signature!"),
00342                         tr("Signature for %1 is invalid.").arg(gpgIdPath));
00343                     emit endReencryptPath();
00344                     return;
00345                 }
00346                 gpgIdFilesVerified.append(gpgIdPath);
00347             }
00348             gpgId = getRecipientList(fileName);
00349             gpgId.sort();
00350         }
00351         // TODO(bezet): enable --with-colons for better future-proofness?
00352         QStringList args = {
00353             "-v", "--no-secmem-warning", "--no-permission-warning",
00354             "--list-only", "--keyid-format=long", pgpg(fileName)};
00355         QString keys, err;
00356         exec.executeBlocking(QtPassSettings::getGpgExecutable(), args, &keys, &err);
00357         QStringList actualKeys;
00358         keys += err;
00359         static const QRegularExpression newLines{"[\\r\\n]"};
00360         #if QT_VERSION >= QT_VERSION_CHECK(5, 15, 0)
00361         QStringList key = keys.split(newLines, Qt::SkipEmptyParts);
00362         #else
00363         QStringList key = keys.split(newLines, QString::SkipEmptyParts);
00364         #endif
00365         QListIterator<QString> itr(key);
00366         while (itr.hasNext()) {
00367             QString current = itr.next();
00368             QStringList cur = current.split(" ");
00369             if (cur.length() > 4) {
00370                 QString actualKey = cur.takeAt(4);

```

```

00383         if (actualKey.length() == 16) {
00384             actualKeys « actualKey;
00385         }
00386     }
00387 }
00388 actualKeys.sort();
00389 if (actualKeys != gpgId) {
00390     // dbg() « actualKeys « gpgId « getRecipientList(fileName);
00391 #ifdef QT_DEBUG
00392     dbg() « "reencrypt " « fileName « " for " « gpgId;
00393 #endif
00394 QString local_lastDecrypt = "Could not decrypt";
00395 args = QStringList{
00396     "-d",      "--quiet",    "--yes",    "--no-encrypt-to",
00397     "--batch", "--use-agent", pgpg(fileName)};
00398 exec.executeBlocking(QPassSettings::getGpgExecutable(), args,
00399                     &local_lastDecrypt);
00400
00401 if (!local_lastDecrypt.isEmpty() &&
00402     local_lastDecrypt != "Could not decrypt") {
00403     if (local_lastDecrypt.right(1) != "\n")
00404         local_lastDecrypt += "\n";
00405
00406 QStringList recipients = Pass::getRecipientList(fileName);
00407 if (recipients.isEmpty()) {
00408     emit critical(tr("Can not edit"),
00409                 tr("Could not read encryption key to use, .gpg-id "
00410                    "file missing or invalid.));
00411     return;
00412 }
00413 args =
00414     QStringList{"--yes", "--batch", "-eq", "--output", pgpg(fileName)};
00415 for (auto &i : recipients) {
00416     args.append("-r");
00417     args.append(i);
00418 }
00419 args.append("-");
00420 exec.executeBlocking(QPassSettings::getGpgExecutable(), args,
00421                     local_lastDecrypt);
00422
00423 if (!QPassSettings::isUseWebDav() && QPassSettings::isUseGit()) {
00424     exec.executeBlocking(QPassSettings::getGitExecutable(),
00425                         {"add", pgit(fileName)});
00426     QString path =
00427         QDir(QPassSettings::getPassStore()).relativeFilePath(fileName);
00428     path.replace(Util::endsWithGpg(), "");
00429     exec.executeBlocking(QPassSettings::getGitExecutable(),
00430                         {"commit", pgit(fileName), "-m",
00431                          "Edit for " + path + " using QtPass.});
00432 }
00433 } else {
00434 #ifdef QT_DEBUG
00435     dbg() « "Decrypt error on re-encrypt";
00436 #endif
00437 }
00438 }
00439 }
00440 }
00441 if (QPassSettings::isAutoPush()) {
00442     emit statusMsg(tr("Updating password-store"), 2000);
00443     // TODO(bezet): this is non-blocking and shall be done outside
00444     GitPush();
00445 }
00446 emit endReencryptPath();
00447 }
00448
00449 void ImitatePass::Move(const QString src, const QString dest,
00450                       const bool force) {
00451     transactionHelper.trans(this, PASS_MOVE);
00452     QFileInfo srcFileInfo(src);
00453     QFileInfo destFileInfo(dest);
00454     QString destFile;
00455     QString srcFileName = srcFileInfo.fileName();
00456
00457     if (srcFileInfo.isFile()) {
00458         if (destFileInfo.isFile()) {
00459             if (!force) {
00460 #ifdef QT_DEBUG
00461                 dbg() « "Destination file already exists";
00462 #endif
00463                 return;
00464             }
00465         } else if (destFileInfo.isDir()) {
00466             destFile = QDir(dest).filePath(srcFileName);
00467         } else {
00468             destFile = dest;
00469         }

```

```

00470
00471     if (destFile.endsWith(".gpg", Qt::CaseInsensitive))
00472         destFile.chop(4); // make sure suffix is lowercase
00473     destFile.append(".gpg");
00474 } else if (srcFileInfo.isDir()) {
00475     if (destFileInfo.isDir()) {
00476         destFile = QDir(dest).filePath(srcFileBaseName);
00477     } else if (destFileInfo.isFile()) {
00478 #ifdef QT_DEBUG
00479         dbg() << "Destination is a file";
00480 #endif
00481         return;
00482     } else {
00483         destFile = dest;
00484     }
00485 } else {
00486 #ifdef QT_DEBUG
00487     dbg() << "Source file does not exist";
00488 #endif
00489     return;
00490 }
00491
00492 #ifdef QT_DEBUG
00493     dbg() << "Move Source: " << src;
00494     dbg() << "Move Destination: " << destFile;
00495 #endif
00496
00497     if (QtPassSettings::isUseGit()) {
00498         QStringList args;
00499         args << "mv";
00500         if (force) {
00501             args << "-f";
00502         }
00503         args << pgit(src);
00504         args << pgit(destFile);
00505         executeGit(GIT_MOVE, args);
00506
00507         QString relSrc = QDir(QtPassSettings::getPassStore()).relativeFilePath(src);
00508         relSrc.replace(Util::endsWithGpg(), "");
00509         QString relDest =
00510             QDir(QtPassSettings::getPassStore()).relativeFilePath(destFile);
00511         relDest.replace(Util::endsWithGpg(), "");
00512         QString message = QString("Moved for %1 to %2 using QtPass.");
00513         message = message.arg(relSrc, relDest);
00514         GitCommit("", message);
00515     } else {
00516         QDir qDir;
00517         if (force) {
00518             qDir.remove(destFile);
00519         }
00520         qDir.rename(src, destFile);
00521     }
00522 }
00523
00524 void ImitatePass::Copy(const QString src, const QString dest,
00525                       const bool force) {
00526     QFileInfo destFileInfo(dest);
00527     transactionHelper trans(this, PASS_COPY);
00528     if (QtPassSettings::isUseGit()) {
00529         QStringList args;
00530         args << "cp";
00531         if (force) {
00532             args << "-f";
00533         }
00534         args << pgit(src);
00535         args << pgit(dest);
00536         executeGit(GIT_COPY, args);
00537
00538         QString message = QString("copied from %1 to %2 using QTPass.");
00539         message = message.arg(src, dest);
00540         GitCommit("", message);
00541     } else {
00542         QDir qDir;
00543         if (force) {
00544             qDir.remove(dest);
00545         }
00546         QFile::copy(src, dest);
00547     }
00548     // reencrypt all files under the new folder
00549     if (destFileInfo.isDir()) {
00550         reencryptPath(destFileInfo.absoluteFilePath());
00551     } else if (destFileInfo.isFile()) {
00552         reencryptPath(destFileInfo.dir().path());
00553     }
00554 }
00555
00560 void ImitatePass::executeGpg(PROCESS id, const QStringList &args, QString input,

```

```

00561         bool readStdout, bool readStderr) {
00562     executeWrapper(id, QtPassSettings::getGpgExecutable(), args, std::move(input),
00563         readStdout, readStderr);
00564 }
00565 void ImitatePass::executeGit(PROCESS id, const QStringList &args, QString input,
00566     bool readStdout, bool readStderr) {
00567     executeWrapper(id, QtPassSettings::getGitExecutable(), args, std::move(input),
00568         readStdout, readStderr);
00569 }
00570 void ImitatePass::finished(int id, int exitCode, const QString &out,
00571     const QString &err) {
00572     #ifdef QT_DEBUG
00573         dbg() << "Imitate Pass";
00574     #endif
00575     static QString transactionOutput;
00576     PROCESS pid = transactionIsOver(static_cast<PROCESS>(id));
00577     transactionOutput.append(out);
00578     if (exitCode == 0) {
00579         if (pid == INVALID)
00580             return;
00581     } else {
00582         while (pid == INVALID) {
00583             id = exec.cancelNext();
00584             if (id == -1) {
00585                 // this is probably irrecoverable and shall not happen
00586             }
00587         }
00588     }
00589     #ifdef QT_DEBUG
00590         dbg() << "No such transaction!";
00591     #endif
00592     return;
00593 }
00594 pid = transactionIsOver(static_cast<PROCESS>(id));
00595 }
00596 Pass::finished(pid, exitCode, transactionOutput, err);
00597 transactionOutput.clear();
00598 }
00599 void ImitatePass::executeWrapper(PROCESS id, const QString &app,
00600     const QStringList &args, QString input,
00601     bool readStdout, bool readStderr) {
00602     transactionAdd(id);
00603     Pass::executeWrapper(id, app, args, input, readStdout, readStderr);
00604 }

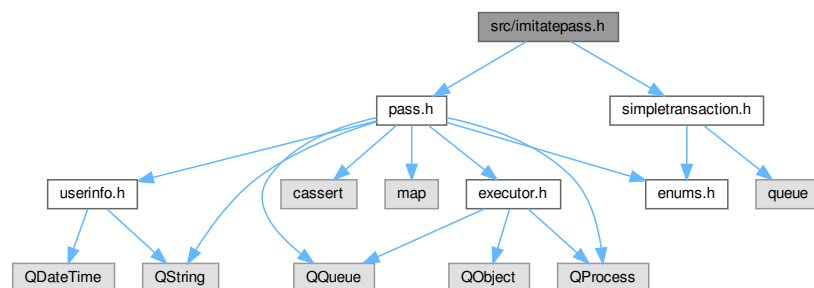
```

14.28 src/imitatepass.h File Reference

```
#include "pass.h"
```

```
#include "simpletransaction.h"
```

Include dependency graph for imitatepass.h:




```

graph TD
    A[src/initatpass.h] --> B[src/passsettings.h]
    B --> C[src/initatpass.cpp]
    B --> D[src/connfigdiag.cpp]
    B --> E[src/mainwindow.cpp]
    B --> F[src/pass.cpp]
    B --> G[src/passworddiag.cpp]
    B --> H[src/qpass.cpp]
    B --> I[src/qpasssettings.cpp]
    B --> J[src/ratpass.cpp]
    B --> K[src/storemodel.cpp]
    B --> L[src/uisettingsdiag.cpp]
    B --> M[src/utf.cpp]
  
```

- class `ImitatePass`
Imitates pass features when pass is not enabled or available.

```

00001 #ifndef IMITATEPASS_H
00002 #define IMITATEPASS_H
00003
00004 #include "pass.h"
00005 #include "simpletransaction.h"
00006
00011 class ImitatePass : public Pass, private simpleTransaction {
00012     Q_OBJECT
00013
00014     bool verifyGpgIdFile(const QString &file);
00015     bool removeDir(const QString &dirName);
00016
00017     void GitCommit(const QString &file, const QString &msg);
00018
00019     void executeGit(PROCESS id, const QStringList &args,
00020                     QString input = QString(), bool readStdout = true,
00021                     bool readStderr = true);
00022     void executeGpg(PROCESS id, const QStringList &args,
00023                     QString input = QString(), bool readStdout = true,
00024                     bool readStderr = true);
00025
00026     class transactionHelper {
00027     private:
00028         simpleTransaction *m_transaction;
00029         PROCESS m_result;
00030     public:
00031         transactionHelper(simpleTransaction *trans, PROCESS result)
00032             : m_transaction(trans), m_result(result) {
00033             m_transaction->transactionStart();
00034         }
00035         ~transactionHelper() { m_transaction->transactionEnd(m_result); }
00036     };
00037
00038 protected:
00039     virtual void finished(int id, int exitCode, const QString &out,
00040                           const QString &err) Q_DECL_OVERRIDE;
00041
00042     virtual void executeWrapper(PROCESS id, const QString &app,
00043                                 const QStringList &args, QString input,
00044                                 bool readStdout = true,
00045                                 bool readStderr = true) Q_DECL_OVERRIDE;
00046
00047 public:
00048     ImitatePass();
00049     virtual ~ImitatePass() {}
00050     virtual void GitInit() Q_DECL_OVERRIDE;
00051     virtual void GitPull() Q_DECL_OVERRIDE;
00052     virtual void GitPull_b() Q_DECL_OVERRIDE;
00053     virtual void GitPush() Q_DECL_OVERRIDE;
00054     virtual void Show(QString file) Q_DECL_OVERRIDE;
00055     virtual void OtpGenerate(QString file) Q_DECL_OVERRIDE;
00056     virtual void Insert(QString file, QString newValue,
00057                          bool overwrite = false) Q_DECL_OVERRIDE;
00058     virtual void Remove(QString file, bool isDir = false) Q_DECL_OVERRIDE;
00059     virtual void Init(QString path, const QList<UserInfo> &users) Q_DECL_OVERRIDE;
00060

```

```

00061 void reencryptPath(const QString &dir);
00062 signals:
00063 void startReencryptPath();
00064 void endReencryptPath();
00065
00066 // Pass interface
00067 public:
00068 void Move(const QString src, const QString dest,
00069           const bool force = false) Q_DECL_OVERRIDE;
00070 void Copy(const QString src, const QString dest,
00071           const bool force = false) Q_DECL_OVERRIDE;
00072 };
00073
00074 #endif // IMITATEPASS_H

```

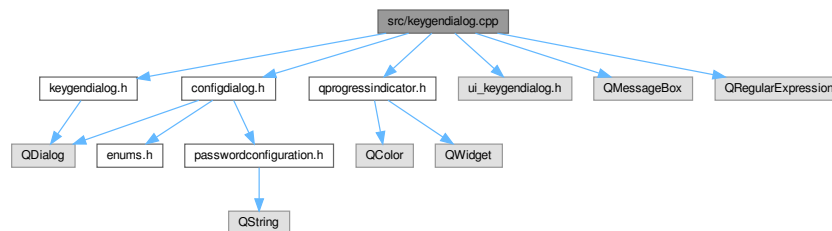
14.30 src/keygendialog.cpp File Reference

```

#include "keygendialog.h"
#include "configdialog.h"
#include "qprogressindicator.h"
#include "ui_keygendialog.h"
#include <QMessageBox>
#include <QRegularExpression>

```

Include dependency graph for keygendialog.cpp:



14.31 keygendialog.cpp

[Go to the documentation of this file.](#)

```

00001 #include "keygendialog.h"
00002 #include "configdialog.h"
00003 #include "qprogressindicator.h"
00004 #include "ui_keygendialog.h"
00005 #include <QMessageBox>
00006 #include <QRegularExpression>
00007
00008 #ifdef QT_DEBUG
00009 #include "debughelper.h"
00010 #endif
00011
00016 KeygenDialog::KeygenDialog(ConfigDialog *parent)
00017     : QDialog(parent), ui(new Ui::KeygenDialog) {
00018     ui->setupUi(this);
00019     dialog = parent;
00020 }
00021
00025 KeygenDialog::~KeygenDialog() { delete ui; }
00026
00032 void KeygenDialog::on_passphrase1_textChanged(const QString &arg1) {
00033     bool state = ui->passphrase1->text() == ui->passphrase2->text();
00034     if (state) {
00035         replace("Passphrase", arg1);
00036         no_protection(arg1.isEmpty());
00037     }
00038 }

```

```

00039 ui->buttonBox->setEnabled(state);
00040 }
00041
00047 void KeygenDialog::on_passphrase2_textChanged(const QString &arg1) {
00048     on_passphrase1_textChanged(arg1);
00049 }
00050
00055 void KeygenDialog::on_checkBox_stateChanged(int arg1) {
00056     ui->plainTextEdit->setReadOnly(!arg1);
00057     ui->plainTextEdit->setEnabled(arg1);
00058 }
00059
00065 void KeygenDialog::on_email_textChanged(const QString &arg1) {
00066     replace("Name-Email", arg1);
00067 }
00068
00074 void KeygenDialog::on_name_textChanged(const QString &arg1) {
00075     replace("Name-Real", arg1);
00076 }
00077
00084 void KeygenDialog::replace(const QString &key, const QString &value) {
00085     QStringList clear;
00086     QString expert = ui->plainTextEdit->toPlainText();
00087     static const QRegularExpression newLines{"[\\r\\n]"};
00088     #if QT_VERSION >= QT_VERSION_CHECK(5, 15, 0)
00089     const QStringList lines = expert.split(newLines, Qt::SkipEmptyParts);
00090     #else
00091     const QStringList lines = expert.split(newLines, QString::SkipEmptyParts);
00092     #endif
00093     for (QString line : lines) {
00094         line.replace(QRegularExpression(key + ".*"), key + " : " + value);
00095         if (key == "Passphrase")
00096             line.replace("%no-protection", "Passphrase : " + value);
00097         clear.append(line);
00098     }
00099     ui->plainTextEdit->setPlainText(clear.join("\n"));
00100 }
00101
00107 void KeygenDialog::no_protection(bool enable) {
00108     QStringList clear;
00109     QString expert = ui->plainTextEdit->toPlainText();
00110     static const QRegularExpression newLines{"[\\r\\n]"};
00111     #if QT_VERSION >= QT_VERSION_CHECK(5, 15, 0)
00112     const QStringList lines = expert.split(newLines, Qt::SkipEmptyParts);
00113     #else
00114     const QStringList lines = expert.split(newLines, QString::SkipEmptyParts);
00115     #endif
00116     for (QString line : lines) {
00117         bool remove = false;
00118         if (!enable) {
00119             if (line.indexOf("%no-protection") == 0)
00120                 remove = true;
00121         } else {
00122             if (line.indexOf("Passphrase") == 0)
00123                 line = "%no-protection";
00124         }
00125         if (!remove)
00126             clear.append(line);
00127     }
00128     ui->plainTextEdit->setPlainText(clear.join("\n"));
00129 }
00130
00136 void KeygenDialog::done(int r) {
00137     if (QDialog::Accepted == r) { // ok was pressed
00138         // check name
00139         if (ui->name->text().length() < 5) {
00140             QMessageBox::critical(this, tr("Invalid name"),
00141                                   tr("Name must be at least 5 characters long.));
00142             return;
00143         }
00144
00145         // check email
00146         static const QRegularExpression mailre(
00147             QRegularExpression::anchoredPattern(
00148                 R"(\b[A-Z0-9._%+-]+@[A-Z0-9.-]+\.[A-Z]{2,4}\b)")
00149             , QRegularExpression::CaseInsensitiveOption);
00150         if (!mailre.match(ui->email->text()).hasMatch()) {
00151             QMessageBox::critical(
00152                 this, tr("Invalid email"),
00153                 tr("The email address you typed is not a valid email address.));
00154             return;
00155         }
00156
00157         ui->widget->setEnabled(false);
00158         ui->buttonBox->setEnabled(false);
00159         ui->checkBox->setEnabled(false);
00160         ui->plainTextEdit->setEnabled(false);

```

```

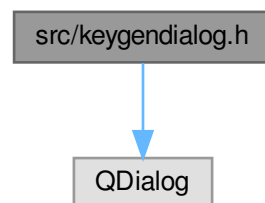
00161
00162     auto *pi = new QProgressIndicator();
00163     pi->startAnimation();
00164     pi->setSizePolicy(QSizePolicy::Expanding, QSizePolicy::Expanding);
00165
00166     ui->frame->hide();
00167     ui->label->setText(
00168         tr("This operation can take some minutes.<br />"
00169           "We need to generate a lot of random bytes. It is a good idea to "
00170           "perform some other action (type on the keyboard, move the mouse, "
00171           "utilize the disks) during the prime generation; this gives the "
00172           "random number generator a better chance to gain enough entropy.");");
00173
00174     this->layout()->addWidget(pi);
00175
00176     this->show();
00177     dialog->genKey(ui->plainTextEdit->toPlainText(), this);
00178 } else { // cancel, close or exc was pressed
00179     QDialog::done(r);
00180     return;
00181 }
00182 }
00183
00188 void KeygenDialog::closeEvent(QCloseEvent *event) {
00189     // TODO(annejan) save window size or somethign
00190     event->accept();
00191 }

```

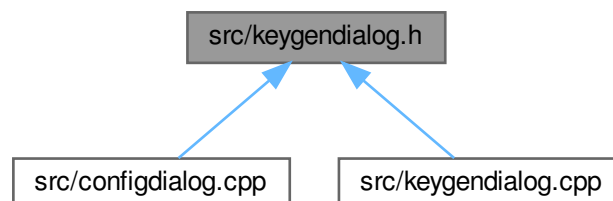
14.32 src/keygendialog.h File Reference

#include <QDialog>

Include dependency graph for keygendialog.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [KeygenDialog](#)
Handles GPG keypair generation.

Namespaces

- namespace [Ui](#)

14.33 keygendialog.h

[Go to the documentation of this file.](#)

```
00001 #ifndef KEYGENDIALOG_H_
00002 #define KEYGENDIALOG_H_
00003
00004 #include <QDialog>
00005
00006 namespace Ui {
00007 class KeygenDialog;
00008 }
00009
00014 class ConfigDialog;
00015 class QCloseEvent;
00016 class KeygenDialog : public QDialog {
00017     Q_OBJECT
00018
00019 public:
00020     explicit KeygenDialog(ConfigDialog *parent = 0);
00021     ~KeygenDialog();
00022
00023 protected:
00024     void closeEvent(QCloseEvent *event);
00025
00026 private slots:
00027     void on_passphrase1_textChanged(const QString &arg1);
00028     void on_passphrase2_textChanged(const QString &arg1);
00029     void on_checkBox_stateChanged(int arg1);
00030     void on_email_textChanged(const QString &arg1);
00031     void on_name_textChanged(const QString &arg1);
00032
00033 private:
00034     Ui::KeygenDialog *ui;
00035     void replace(const QString &, const QString &);
00036     void done(int r);
00037     void no_protection(bool enable);
00038     ConfigDialog *dialog;
00039 };
00040
00041 #endif // KEYGENDIALOG_H_
```

14.34 src/mainwindow.cpp File Reference

```
#include "mainwindow.h"
#include "configdialog.h"
#include "filecontent.h"
#include "passworddialog.h"
#include "qpushbuttonasqrqr.h"
#include "qpushbuttonshowpassword.h"
#include "qpushbuttonwithclipboard.h"
#include "qtpass.h"
#include "qtpasssettings.h"
#include "trayicon.h"
#include "ui_mainwindow.h"
#include "usersdialog.h"
```

```

#include "util.h"
#include <QCloseEvent>
#include <QDesktopServices>
#include <QDialog>
#include <QFileInfo>
#include <QInputDialog>
#include <QLabel>
#include <QMenu>
#include <QMessageBox>
#include <QShortcut>
#include <QTimer>

```

Include dependency graph for mainwindow.cpp:



14.35 mainwindow.cpp

[Go to the documentation of this file.](#)

```

00001 #include "mainwindow.h"
00002
00003 #ifdef QT_DEBUG
00004 #include "debughelper.h"
00005 #endif
00006
00007 #include "configdialog.h"
00008 #include "filecontent.h"
00009 #include "passworddialog.h"
00010 #include "qpushbuttonasqrcode.h"
00011 #include "qpushbuttonshowpassword.h"
00012 #include "qpushbuttonwithclipboard.h"
00013 #include "qtpass.h"
00014 #include "qtpasssettings.h"
00015 #include "trayicon.h"
00016 #include "ui_mainwindow.h"
00017 #include "usersdialog.h"
00018 #include "util.h"
00019 #include <QCloseEvent>
00020 #include <QDesktopServices>
00021 #include <QDialog>
00022 #include <QFileInfo>
00023 #include <QInputDialog>
00024 #include <QLabel>
00025 #include <QMenu>
00026 #include <QMessageBox>
00027 #include <QShortcut>
00028 #include <QTimer>
00029
00036 MainWindow::MainWindow(const QString &searchText, QWidget *parent)
00037     : QMainWindow(parent), ui(new Ui::MainWindow), keygen(nullptr),
00038       traygen(nullptr) {
00039 #ifdef __APPLE__
00040     // extra treatment for mac os
00041     // see http://doc.qt.io/qt-5/qkeysequence.html#qt_set_sequence_auto_mnemonic
00042     qt_set_sequence_auto_mnemonic(true);
00043 #endif
00044     ui->setUi(this);
00045
00046     m_qtPass = new QtPass(this);
00047
00048     // register shortcut ctrl/cmd + Q to close the main window
00049     new QShortcut(QKeySequence(Qt::CTRL | Qt::Key_Q), this, SLOT(close()));
00050     // register shortcut ctrl/cmd + C to copy the currently selected password
00051     new QShortcut(QKeySequence(QKeySequence::StandardKey::Copy), this,
00052                 SLOT(copyPasswordFromTreeview()));
00053
00054     model.setNameFilters(QStringList() << "*.gpg");
00055     model.setNameFilterDisables(false);
00056

```

```

00057  /*
00058  * I added this to solve Windows bug but now on GNU/Linux the main folder,
00059  * if hidden, disappear
00060  *
00061  * model.setFilter(QDir::NoDot);
00062  */
00063
00064  QString passStore = QtPassSettings::getPassStore(Util::findPasswordStore());
00065
00066  QModelIndex rootDir = model.setRootPath(passStore);
00067  model.fetchMore(rootDir);
00068
00069  proxyModel.setModelAndStore(&model, passStore);
00070  selectionModel.reset(new QItemSelectionModel(&proxyModel));
00071
00072  ui->treeView->setModel(&proxyModel);
00073  ui->treeView->setRootIndex(proxyModel.mapFromSource(rootDir));
00074  ui->treeView->setColumnHidden(1, true);
00075  ui->treeView->setColumnHidden(2, true);
00076  ui->treeView->setColumnHidden(3, true);
00077  ui->treeView->setHeaderHidden(true);
00078  ui->treeView->setIndentation(15);
00079  ui->treeView->setHorizontalScrollBarPolicy(Qt::ScrollBarAsNeeded);
00080  ui->treeView->setContextMenuPolicy(Qt::CustomContextMenu);
00081  ui->treeView->header()->setSectionResizeMode(0, QHeaderView::Stretch);
00082  ui->treeView->sortByColumn(0, Qt::AscendingOrder);
00083  connect(ui->treeView, &QWidget::customContextMenuRequested, this,
00084          &MainWindow::showContextMenu);
00085  connect(ui->treeView, &DeselectableTreeView::emptyClicked, this,
00086          &MainWindow::deselect);
00087
00088  if (QtPassSettings::isUseMonospace()) {
00089      ui->textBrowser->setFont(QFont(QStringLiteral("Monospace")));
00090  }
00091  if (QtPassSettings::isNoLineWrapping()) {
00092      ui->textBrowser->setLineWrapMode(QTextBrowser::NoWrap);
00093  }
00094  ui->textBrowser->setOpenExternalLinks(true);
00095  ui->textBrowser->setContextMenuPolicy(Qt::CustomContextMenu);
00096  connect(ui->textBrowser, &QWidget::customContextMenuRequested, this,
00097          &MainWindow::showBrowserContextMenu);
00098
00099  updateProfileBox();
00100
00101  QtPassSettings::getPass()->updateEnv();
00102  clearPanelTimer.setInterval(1000 *
00103                             QtPassSettings::getAutoclearPanelSeconds());
00104  clearPanelTimer.setSingleShot(true);
00105  connect(&clearPanelTimer, SIGNAL(timeout()), this, SLOT(clearPanel()));
00106
00107  searchTimer.setInterval(350);
00108  searchTimer.setSingleShot(true);
00109
00110  connect(&searchTimer, &QTimer::timeout, this, &MainWindow::onTimeoutSearch);
00111
00112  initToolBarButtons();
00113  initStatusBar();
00114
00115  ui->lineEdit->setClearButtonEnabled(true);
00116
00117  setUiElementsEnabled(true);
00118
00119  QTimer::singleShot(10, this, SLOT(focusInput()));
00120
00121  ui->lineEdit->setText(searchText);
00122
00123  if (!m_qtPass->init())
00124      // no working config so this should just quit
00125      QApplication::quit();
00126 }
00127
00128 MainWindow::~MainWindow() { delete m_qtPass; }
00129
00136 void MainWindow::focusInput() {
00137     ui->lineEdit->selectAll();
00138     ui->lineEdit->setFocus();
00139 }
00140
00145 void MainWindow::changeEvent(QEvent *event) {
00146     QWidget::changeEvent(event);
00147     if (event->type() == QEvent::ActivationChange) {
00148         if (isActiveWindow()) {
00149             focusInput();
00150         }
00151     }
00152 }
00153

```

```

00157 void MainWindow::initToolBarButtons() {
00158     connect(ui->actionAddPassword, &QAction::triggered, this,
00159             &MainWindow::addPassword);
00160     connect(ui->actionAddFolder, &QAction::triggered, this,
00161             &MainWindow::addFolder);
00162     connect(ui->actionEdit, &QAction::triggered, this, &MainWindow::onEdit);
00163     connect(ui->actionDelete, &QAction::triggered, this, &MainWindow::onDelete);
00164     connect(ui->actionPush, &QAction::triggered, this, &MainWindow::onPush);
00165     connect(ui->actionUpdate, &QAction::triggered, this, &MainWindow::onUpdate);
00166     connect(ui->actionUsers, &QAction::triggered, this, &MainWindow::onUsers);
00167     connect(ui->actionConfig, &QAction::triggered, this, &MainWindow::onConfig);
00168     connect(ui->actionOtp, &QAction::triggered, this, &MainWindow::onOtp);
00169
00170     ui->actionAddPassword->setIcon(
00171         QIcon::fromTheme("document-new", QIcon(":/icons/document-new.svg")));
00172     ui->actionAddFolder->setIcon(
00173         QIcon::fromTheme("folder-new", QIcon(":/icons/folder-new.svg")));
00174     ui->actionEdit->setIcon(QIcon::fromTheme(
00175         "document-properties", QIcon(":/icons/document-properties.svg")));
00176     ui->actionDelete->setIcon(
00177         QIcon::fromTheme("edit-delete", QIcon(":/icons/edit-delete.svg")));
00178     ui->actionPush->setIcon(
00179         QIcon::fromTheme("go-up", QIcon(":/icons/go-top.svg")));
00180     ui->actionUpdate->setIcon(
00181         QIcon::fromTheme("go-down", QIcon(":/icons/go-bottom.svg")));
00182     ui->actionUsers->setIcon(QIcon::fromTheme(
00183         "x-office-address-book", QIcon(":/icons/x-office-address-book.svg")));
00184     ui->actionConfig->setIcon(QIcon::fromTheme(
00185         "applications-system", QIcon(":/icons/applications-system.svg")));
00186 }
00187
00191 void MainWindow::initStatusBar() {
00192     ui->statusBar->showMessage(tr("Welcome to QtPass %1").arg(VERSION), 2000);
00193
00194     QPixmap logo = QPixmap::fromImage(QImage(":/artwork/icon.svg"))
00195         .scaledToHeight(statusBar()->height());
00196     QLabel *logoApp = new QLabel(statusBar());
00197     logoApp->setPixmap(logo);
00198     statusBar()->addPermanentWidget(logoApp);
00199 }
00200
00201 const QModelIndex MainWindow::getCurrentTreeViewIndex() {
00202     return ui->treeView->currentIndex();
00203 }
00204
00205 void MainWindow::cleanKeygenDialog() {
00206     this->keygen->close();
00207     this->keygen = nullptr;
00208 }
00209
00210 void MainWindow::flashText(const QString &text, const bool isError,
00211                           const bool isHtml) {
00212     if (isError)
00213         ui->textBrowser->setTextColor(Qt::red);
00214
00215     if (isHtml) {
00216         QString _text = text;
00217         if (!ui->textBrowser->toPlainText().isEmpty())
00218             _text = ui->textBrowser->toHtml() + _text;
00219         ui->textBrowser->setHtml(_text);
00220     } else {
00221         ui->textBrowser->setText(text);
00222         ui->textBrowser->setTextColor(Qt::black);
00223     }
00224 }
00225
00230 void MainWindow::config() {
00231     QScopedPointer<ConfigDialog> d(new ConfigDialog(this));
00232     d->setModal(true);
00233     // Automatically default to pass if it's available
00234     if (m_qtPass->isFreshStart() &&
00235         QFile(QtPassSettings::getPassExecutable()).exists()) {
00236         QtPassSettings::setUsePass(true);
00237     }
00238
00239     if (m_qtPass->isFreshStart())
00240         d->wizard(); // does shit
00241     if (d->exec()) {
00242         if (d->result() == QDialog::Accepted) {
00243             // Update the textBrowser font
00244             if (QtPassSettings::isUseMonospace()) {
00245                 ui->textBrowser->setFont(QFont(QStringLiteral("Monospace")));
00246             } else {
00247                 ui->textBrowser->setFont(QFont());
00248             }
00249             // Update the textBrowser line wrap mode
00250             if (QtPassSettings::isNoLineWrapping()) {

```



```

00251         ui->textBrowser->setLineWrapMode(QTextBrowser::NoWrap);
00252     } else {
00253         ui->textBrowser->setLineWrapMode(QTextBrowser::WidgetWidth);
00254     }
00255
00256     if (QtPassSettings::isAlwaysOnTop()) {
00257         Qt::WindowFlags flags = windowFlags();
00258         this->setWindowFlags(flags | Qt::WindowStaysOnTopHint);
00259     } else {
00260         this->setWindowFlags(Qt::Window);
00261     }
00262     this->show();
00263
00264     updateProfileBox();
00265     ui->treeView->setRootIndex(proxyModel.mapFromSource(
00266         model.setRootPath(QtPassSettings::getPassStore())));
00267
00268     if (m_qtPass->isFreshStart() && Util::checkConfig())
00269         config();
00270     QtPassSettings::getPass()->updateEnv();
00271     clearPanelTimer.setInterval(1000 *
00272         QtPassSettings::getAutoclearPanelSeconds());
00273     m_qtPass->setClipboardTimer();
00274
00275     updateGitButtonVisibility();
00276     updateOtpButtonVisibility();
00277     if (QtPassSettings::isUseTrayIcon() && tray == nullptr)
00278         initTrayIcon();
00279     else if (!QtPassSettings::isUseTrayIcon() && tray != nullptr) {
00280         destroyTrayIcon();
00281     }
00282 }
00283
00284 m_qtPass->setFreshStart(false);
00285 }
00286 }
00287
00291 void MainWindow::onUpdate(bool block) {
00292     ui->statusBar->showMessage(tr("Updating password-store"), 2000);
00293     if (block)
00294         QtPassSettings::getPass()->GitPull_b();
00295     else
00296         QtPassSettings::getPass()->GitPull();
00297 }
00298
00302 void MainWindow::onPush() {
00303     if (QtPassSettings::isUseGit()) {
00304         ui->statusBar->showMessage(tr("Updating password-store"), 2000);
00305         QtPassSettings::getPass()->GitPush();
00306     }
00307 }
00308
00316 QString MainWindow::getFile(const QModelIndex &index, bool forPass) {
00317     if (!index.isValid() ||
00318         !model.fileInfo(proxyModel.mapToSource(index)).isFile())
00319         return QString();
00320     QString filePath = model.filePath(proxyModel.mapToSource(index));
00321     if (forPass) {
00322         filePath = QDir(QtPassSettings::getPassStore()).relativeFilePath(filePath);
00323         filePath.replace(Util::endsWithGpg(), "");
00324     }
00325     return filePath;
00326 }
00327
00332 void MainWindow::on_treeView_clicked(const QModelIndex &index) {
00333     bool cleared = ui->treeView->currentIndex().flags() == Qt::NoItemFlags;
00334     currentDir =
00335         Util::getDir(ui->treeView->currentIndex(), false, model, proxyModel);
00336     // TODO(bezet): "Could not decrypt";
00337     m_qtPass->clearClippedText();
00338     QString file = getFile(index, true);
00339     ui->passwordName->setText(getFile(index, true));
00340     if (!file.isEmpty() && !cleared) {
00341         QtPassSettings::getPass()->Show(file);
00342     } else {
00343         clearPanel(false);
00344         ui->actionEdit->setEnabled(false);
00345         ui->actionDelete->setEnabled(true);
00346     }
00347 }
00348
00354 void MainWindow::on_treeView_doubleClicked(const QModelIndex &index) {
00355     QFileInfo fileOrFolder =
00356         model.fileInfo(proxyModel.mapToSource(ui->treeView->currentIndex()));
00357
00358     if (fileOrFolder.isFile()) {
00359         editPassword(getFile(index, true));

```

```

00360     }
00361 }
00362
00366 void MainWindow::deselect() {
00367     currentDir = "";
00368     m_qtPass->clearClipboard();
00369     ui->treeView->clearSelection();
00370     ui->actionEdit->setEnabled(false);
00371     ui->actionDelete->setEnabled(false);
00372     ui->passwordName->setText("");
00373     clearPanel(false);
00374 }
00375
00376 void MainWindow::executeWrapperStarted() {
00377     clearTemplateWidgets();
00378     ui->textBrowser->clear();
00379     setUiElementsEnabled(false);
00380     clearPanelTimer.stop();
00381 }
00382
00383 void MainWindow::passShowHandler(const QString &p_output) {
00384     QStringList templ = QtPassSettings::isUseTemplate()
00385         ? QtPassSettings::getPassTemplate().split("\n")
00386         : QStringList();
00387     bool allFields =
00388         QtPassSettings::isUseTemplate() && QtPassSettings::isTemplateAllFields();
00389     FileContent fileContent = FileContent::parse(p_output, templ, allFields);
00390     QString output = p_output;
00391     QString password = fileContent.getPassword();
00392
00393     // set clipped text
00394     m_qtPass->setClippedText(password, p_output);
00395
00396     // first clear the current view:
00397     clearTemplateWidgets();
00398
00399     // show what is needed:
00400     if (QtPassSettings::isHideContent()) {
00401         output = "****" + tr("Content hidden") + "****";
00402     } else if (!QtPassSettings::isDisplayAsIs()) {
00403         if (!password.isEmpty()) {
00404             // set the password, it is hidden if needed in addToGridLayout
00405             addToGridLayout(0, tr("Password"), password);
00406         }
00407
00408         NamedValues namedValues = fileContent.getNamedValues();
00409         for (int j = 0; j < namedValues.length(); ++j) {
00410             NamedValue nv = namedValues.at(j);
00411             addToGridLayout(j + 1, nv.name, nv.value);
00412         }
00413         if (ui->gridLayout->count() == 0)
00414             ui->verticalLayoutPassword->setSpacing(0);
00415         else
00416             ui->verticalLayoutPassword->setSpacing(6);
00417
00418         output = fileContent.getRemainingDataForDisplay();
00419     }
00420
00421     if (QtPassSettings::isUseAutoclearPanel()) {
00422         clearPanelTimer.start();
00423     }
00424
00425     emit passShowHandlerFinished(output);
00426     setUiElementsEnabled(true);
00427 }
00428
00429 void MainWindow::passOtpHandler(const QString &p_output) {
00430     if (!p_output.isEmpty()) {
00431         addToGridLayout(ui->gridLayout->count() + 1, tr("OTP Code"), p_output);
00432         m_qtPass->copyTextToClipboard(p_output);
00433     }
00434     if (QtPassSettings::isUseAutoclearPanel()) {
00435         clearPanelTimer.start();
00436     }
00437     setUiElementsEnabled(true);
00438 }
00439
00440 void MainWindow::clearPanel(bool notify) {
00441     while (ui->gridLayout->count() > 0) {
00442         QLayoutItem *item = ui->gridLayout->takeAt(0);
00443         delete item->widget();
00444         delete item;
00445     }
00446     if (notify) {
00447         QString output = "****" + tr("Password and Content hidden") + "****";
00448         ui->textBrowser->setHtml(output);
00449     } else {

```

```

00453     ui->textBrowser->setHtml("");
00454 }
00455 }
00456
00462 void MainWindow::setUiElementsEnabled(bool state) {
00463     ui->treeView->setEnabled(state);
00464     ui->lineEdit->setEnabled(state);
00465     ui->lineEdit->installEventFilter(this);
00466     ui->actionAddPassword->setEnabled(state);
00467     ui->actionAddFolder->setEnabled(state);
00468     ui->actionUsers->setEnabled(state);
00469     ui->actionConfig->setEnabled(state);
00470     // is a file selected?
00471     state &= ui->treeView->currentIndex().isValid();
00472     ui->actionDelete->setEnabled(state);
00473     ui->actionEdit->setEnabled(state);
00474     updateGitButtonVisibility();
00475     updateOtpButtonVisibility();
00476 }
00477
00478 void MainWindow::restoreWindow() {
00479     QByteArray geometry = QtPassSettings::getGeometry(saveGeometry());
00480     restoreGeometry(geometry);
00481     QByteArray savestate = QtPassSettings::getSavestate(saveState());
00482     restoreState(savestate);
00483     QPoint position = QtPassSettings::getPos(pos());
00484     move(position);
00485     QSize newSize = QtPassSettings::getSize(size());
00486     resize(newSize);
00487     if (QtPassSettings::isMaximized(isMaximized())) {
00488         showMaximized();
00489     }
00490
00491     if (QtPassSettings::isAlwaysOnTop()) {
00492         Qt::WindowFlags flags = windowFlags();
00493         setWindowFlags(flags | Qt::WindowStaysOnTopHint);
00494         show();
00495     }
00496
00497     if (QtPassSettings::isUseTrayIcon() && tray == nullptr) {
00498         initTrayIcon();
00499         if (QtPassSettings::isStartMinimized()) {
00500             // since we are still in constructor, can't directly hide
00501             QTimer::singleShot(10, this, SLOT(hide()));
00502         }
00503     } else if (!QtPassSettings::isUseTrayIcon() && tray != nullptr) {
00504         destroyTrayIcon();
00505     }
00506 }
00507
00511 void MainWindow::onConfig() { config(); }
00512
00518 void MainWindow::on_lineEdit_textChanged(const QString &arg1) {
00519     ui->statusBar->showMessage(tr("Looking for: %1").arg(arg1), 1000);
00520     ui->treeView->expandAll();
00521     clearPanel(false);
00522     ui->passwordName->setText("");
00523     ui->actionEdit->setEnabled(false);
00524     ui->actionDelete->setEnabled(false);
00525     searchTimer.start();
00526 }
00527
00532 void MainWindow::onTimeoutSearch() {
00533     QString query = ui->lineEdit->text();
00534
00535     if (query.isEmpty()) {
00536         ui->treeView->collapseAll();
00537         deselect();
00538     }
00539
00540     query.replace(QStringLiteral(" "), ".*");
00541     QRegularExpression regExp(query, QRegularExpression::CaseInsensitiveOption);
00542     proxyModel.setFilterRegularExpression(regExp);
00543     ui->treeView->setRootIndex(proxyModel.mapFromSource(
00544         model.setRootPath(QtPassSettings::getPassStore())));
00545
00546     if (proxyModel.rowCount() > 0 && !query.isEmpty()) {
00547         selectFirstFile();
00548     } else {
00549         ui->actionEdit->setEnabled(false);
00550         ui->actionDelete->setEnabled(false);
00551     }
00552 }
00553
00559 void MainWindow::on_lineEdit_returnPressed() {
00560     #ifdef QT_DEBUG
00561         dbg() << "on_lineEdit_returnPressed" << proxyModel.rowCount();

```

```

00562 #endif
00563
00564     if (proxyModel.rowCount() > 0) {
00565         selectFirstFile();
00566         on_treeView_clicked(ui->treeView->currentIndex());
00567     }
00568 }
00569
00574 void MainWindow::selectFirstFile() {
00575     QModelIndex index = proxyModel.mapFromSource(
00576         model.setRootPath(QtPassSettings::getPassStore()));
00577     index = firstFile(index);
00578     ui->treeView->setCurrentIndex(index);
00579 }
00580
00586 QModelIndex MainWindow::firstFile(QModelIndex parentIndex) {
00587     QModelIndex index = parentIndex;
00588     int numRows = proxyModel.rowCount(parentIndex);
00589     for (int row = 0; row < numRows; ++row) {
00590         index = proxyModel.index(row, 0, parentIndex);
00591         if (model.fileInfo(proxyModel.mapToSource(index)).isFile())
00592             return index;
00593         if (proxyModel.hasChildren(index))
00594             return firstFile(index);
00595     }
00596     return index;
00597 }
00598
00604 void MainWindow::setPassword(QString file, bool isNew) {
00605     PasswordDialog d(file, isNew, this);
00606
00607     if (!d.exec()) {
00608         ui->treeView->setFocus();
00609     }
00610 }
00611
00616 void MainWindow::addPassword() {
00617     bool ok;
00618     QString dir =
00619         Util::getDir(ui->treeView->currentIndex(), true, model, proxyModel);
00620     QString file =
00621         QDialog::getText(this, tr("New file"),
00622             tr("New password file: \n(Will be placed in %1 )")
00623                 .arg(QtPassSettings::getPassStore() +
00624                     Util::getDir(ui->treeView->currentIndex(),
00625                         true, model, proxyModel)),
00626             QLineEdit::Normal, "", &ok);
00627     if (!ok || file.isEmpty())
00628         return;
00629     file = dir + file;
00630     setPassword(file);
00631 }
00632
00637 void MainWindow::onDelete() {
00638     QModelIndex currentIndex = ui->treeView->currentIndex();
00639     if (!currentIndex.isValid()) {
00640         // This fixes https://github.com/IJHack/QtPass/issues/556
00641         // Otherwise the entire password directory would be deleted if
00642         // nothing is selected in the tree view.
00643         return;
00644     }
00645
00646     QFileInfo fileOrFolder =
00647         model.fileInfo(proxyModel.mapToSource(ui->treeView->currentIndex()));
00648     QString file = "";
00649     bool isDir = false;
00650
00651     if (fileOrFolder.isFile()) {
00652         file = getFile(ui->treeView->currentIndex(), true);
00653     } else {
00654         file = Util::getDir(ui->treeView->currentIndex(), true, model, proxyModel);
00655         isDir = true;
00656     }
00657
00658     QString dirMessage = tr(" and the whole content?");
00659     if (isDir) {
00660         QDirIterator it(model.rootPath() + QDir::separator() + file,
00661             QDirIterator::Subdirectories);
00662         bool okDir = true;
00663         while (it.hasNext() && okDir) {
00664             it.next();
00665             if (QFileInfo(it.filePath()).isFile()) {
00666                 if (QFileInfo(it.filePath()).suffix() != "pgp") {
00667                     okDir = false;
00668                     dirMessage = tr(" and the whole content? <br><strong>Attention: "
00669                         "there are unexpected files in the given folder, "
00670                         "check them before continue.</strong>");
00671                 }
00672             }
00673         }
00674     }

```

```

00671     }
00672     }
00673     }
00674 }
00675
00676 if (QMessageBox::question(
00677     this, isDir ? tr("Delete folder?") : tr("Delete password?"),
00678     tr("Are you sure you want to delete %1%2?")
00679     .arg(QDir::separator() + file, isDir ? dirMessage : "?"),
00680     QMessageBox::Yes | QMessageBox::No) != QMessageBox::Yes)
00681     return;
00682
00683 QtPassSettings::getPass()->Remove(file, isDir);
00684 }
00685
00686 void MainWindow::onOtp() {
00687     QString file = getFile(ui->treeView->currentIndex(), true);
00688     if (!file.isEmpty()) {
00689         if (QtPassSettings::isUseOtp())
00690             QtPassSettings::getPass()->OtpGenerate(file);
00691     }
00692 }
00693
00694 void MainWindow::onEdit() {
00695     QString file = getFile(ui->treeView->currentIndex(), true);
00696     editPassword(file);
00697 }
00698
00699 void MainWindow::userDialog(QString dir) {
00700     if (!dir.isEmpty())
00701         currentDir = dir;
00702     onUsers();
00703 }
00704
00705 void MainWindow::onUsers() {
00706     QString dir =
00707         currentDir.isEmpty()
00708         ? Util::getDir(ui->treeView->currentIndex(), false, model, proxyModel)
00709         : currentDir;
00710     UsersDialog d(dir, this);
00711     if (!d.exec()) {
00712         ui->treeView->setFocus();
00713     }
00714 }
00715
00716 void MainWindow::messageAvailable(QString message) {
00717     if (message.isEmpty()) {
00718         focusInput();
00719     } else {
00720         ui->treeView->expandAll();
00721         ui->lineEdit->setText(message);
00722         on_lineEdit_returnPressed();
00723     }
00724     show();
00725     raise();
00726 }
00727
00728 void MainWindow::generateKeyPair(QString batch, QDialog *keygenWindow) {
00729     keygen = keygenWindow;
00730     emit generateGPGKeyPair(batch);
00731 }
00732
00733 void MainWindow::updateProfileBox() {
00734     QHash<QString, QHash<QString, QString>> profiles =
00735         QtPassSettings::getProfiles();
00736
00737     if (profiles.isEmpty()) {
00738         ui->profileWidget->hide();
00739     } else {
00740         ui->profileWidget->show();
00741         ui->profileBox->setEnabled(profiles.size() > 1);
00742         ui->profileBox->clear();
00743         QHashIterator<QString, QHash<QString, QString>> i(profiles);
00744         while (i.hasNext()) {
00745             i.next();
00746             if (!i.key().isEmpty())
00747                 ui->profileBox->addItem(i.key());
00748         }
00749         ui->profileBox->model()->sort(0);
00750     }
00751     int index = ui->profileBox->findText(QtPassSettings::getProfile());
00752     if (index != -1) // -1 for not found
00753         ui->profileBox->setCurrentIndex(index);
00754 }
00755
00756 void MainWindow::on_profileBox_currentIndexChanged(QString name) {

```

```

00791     if (m_qtPass->isFreshStart() || name == QtPassSettings::getProfile())
00792         return;
00793
00794     ui->lineEdit->clear();
00795
00796     QtPassSettings::setProfile(name);
00797
00798     QtPassSettings::setPassStore(
00799         QtPassSettings::getProfiles().value(name).value("path"));
00800     QtPassSettings::setPassSigningKey(
00801         QtPassSettings::getProfiles().value(name).value("signingKey"));
00802     ui->statusBar->showMessage(tr("Profile changed to %1").arg(name), 2000);
00803
00804     QtPassSettings::getPass()->updateEnv();
00805
00806     ui->treeView->selectionModel()->clear();
00807     ui->treeView->setRootIndex(proxyModel.mapFromSource(
00808         model.setRootPath(QtPassSettings::getPassStore())));
00809
00810     ui->actionEdit->setEnabled(false);
00811     ui->actionDelete->setEnabled(false);
00812 }
00813
00819 void MainWindow::initTrayIcon() {
00820     this->tray = new TrayIcon(this);
00821     // Setup tray icon
00822
00823     if (tray == nullptr) {
00824 #ifdef QT_DEBUG
00825         dbg() << "Allocating tray icon failed.";
00826 #endif
00827     }
00828
00829     if (!tray->getIsAllocated()) {
00830         destroyTrayIcon();
00831     }
00832 }
00833
00837 void MainWindow::destroyTrayIcon() {
00838     delete this->tray;
00839     tray = nullptr;
00840 }
00841
00846 void MainWindow::closeEvent(QCloseEvent *event) {
00847     if (QtPassSettings::isHideOnClose()) {
00848         this->hide();
00849         event->ignore();
00850     } else {
00851         m_qtPass->clearClipboard();
00852
00853         QtPassSettings::setGeometry(saveGeometry());
00854         QtPassSettings::setSaveState(saveState());
00855         QtPassSettings::setMaximized(isMaximized());
00856         if (!isMaximized()) {
00857             QtPassSettings::setPos(pos());
00858             QtPassSettings::setSize(size());
00859         }
00860         event->accept();
00861     }
00862 }
00863
00871 bool MainWindow::eventFilter(QObject *obj, QEvent *event) {
00872     if (obj == ui->lineEdit && event->type() == QEvent::KeyPress) {
00873         auto *key = dynamic_cast<QKeyEvent*>(event);
00874         if (key != NULL && key->key() == Qt::Key_Down) {
00875             ui->treeView->setFocus();
00876         }
00877     }
00878     return QObject::eventFilter(obj, event);
00879 }
00880
00885 void MainWindow::keyPressEvent(QKeyEvent *event) {
00886     switch (event->key()) {
00887     case Qt::Key_Delete:
00888         onDelete();
00889         break;
00890     case Qt::Key_Return:
00891     case Qt::Key_Enter:
00892         if (proxyModel.rowCount() > 0)
00893             onTreeView_clicked(ui->treeView->currentIndex());
00894         break;
00895     case Qt::Key_Escape:
00896         ui->lineEdit->clear();
00897         break;
00898     default:
00899         break;
00900     }

```

```

00901 }
00902
00908 void MainWindow::showContextMenu(const QPoint &pos) {
00909     QModelIndex index = ui->treeView->indexAt(pos);
00910     bool selected = true;
00911     if (!index.isValid()) {
00912         ui->treeView->clearSelection();
00913         ui->actionDelete->setEnabled(false);
00914         ui->actionEdit->setEnabled(false);
00915         currentDir = "";
00916         selected = false;
00917     }
00918
00919     ui->treeView->setCurrentIndex(index);
00920
00921     QPoint globalPos = ui->treeView->viewport()->mapToGlobal(pos);
00922
00923     QFileInfo fileOrFolder =
00924         model.fileInfo(proxyModel.mapToSource(ui->treeView->currentIndex()));
00925
00926     QMenu contextMenu;
00927     if (!selected || fileOrFolder.isDir()) {
00928         QAction *openFolder =
00929             contextMenu.addAction(tr("Open folder with file manager"));
00930         QAction *addFolder = contextMenu.addAction(tr("Add folder"));
00931         QAction *addPassword = contextMenu.addAction(tr("Add password"));
00932         QAction *users = contextMenu.addAction(tr("Users"));
00933         connect(openFolder, &QAction::triggered, this, &MainWindow::openFolder);
00934         connect(addFolder, &QAction::triggered, this, &MainWindow::addFolder);
00935         connect(addPassword, &QAction::triggered, this, &MainWindow::addPassword);
00936         connect(users, &QAction::triggered, this, &MainWindow::onUsers);
00937     } else if (fileOrFolder.isFile()) {
00938         QAction *edit = contextMenu.addAction(tr("Edit"));
00939         connect(edit, &QAction::triggered, this, &MainWindow::onEdit);
00940     }
00941     if (selected) {
00942         // if (useClipboard != CLIPBOARD_NEVER) {
00943         //     contextMenu.addSeparator();
00944         //     QAction* copyItem = contextMenu.addAction(tr("Copy Password"));
00945         //     if (getClippedPassword().length() == 0) copyItem->setEnabled(false);
00946         //     connect(copyItem, SIGNAL(triggered()), this,
00947         //         // SLOT(copyPasswordToClipboard()));
00948         // }
00949         contextMenu.addSeparator();
00950         if (fileOrFolder.isDir()) {
00951             QAction *renameFolder = contextMenu.addAction(tr("Rename folder"));
00952             connect(renameFolder, &QAction::triggered, this,
00953                 &MainWindow::renameFolder);
00954         } else if (fileOrFolder.isFile()) {
00955             QAction *renamePassword = contextMenu.addAction(tr("Rename password"));
00956             connect(renamePassword, &QAction::triggered, this,
00957                 &MainWindow::renamePassword);
00958         }
00959         QAction *deleteItem = contextMenu.addAction(tr("Delete"));
00960         connect(deleteItem, &QAction::triggered, this, &MainWindow::onDelete);
00961     }
00962     contextMenu.exec(globalPos);
00963 }
00964
00970 void MainWindow::showBrowserContextMenu(const QPoint &pos) {
00971     QMenu *contextMenu = ui->textBrowser->createStandardContextMenu(pos);
00972     QPoint globalPos = ui->textBrowser->viewport()->mapToGlobal(pos);
00973
00974     contextMenu->exec(globalPos);
00975     delete contextMenu;
00976 }
00977
00981 void MainWindow::openFolder() {
00982     QString dir =
00983         Util::getDir(ui->treeView->currentIndex(), false, model, proxyModel);
00984
00985     QString path = QDir::toNativeSeparators(dir);
00986     QDesktopServices::openUrl(QUrl::fromLocalFile(path));
00987 }
00988
00992 void MainWindow::addFolder() {
00993     bool ok;
00994     QString dir =
00995         Util::getDir(ui->treeView->currentIndex(), false, model, proxyModel);
00996     QString newdir =
00997         QInputDialog::getText(this, tr("New file"),
00998             tr("New Folder: \n(Will be placed in %1 )")
00999             .arg(QtPassSettings::getPassStore() +
01000                 Util::getDir(ui->treeView->currentIndex(),
01001                     true, model, proxyModel))),
01002             QLineEdit::Normal, "", &ok);
01003     if (!ok || newdir.isEmpty())

```

```

01004     return;
01005     newdir.prepend(dir);
01006     // dbg()« newdir;
01007     QDir().mkdir(newdir);
01008 }
01009
01013 void MainWindow::renameFolder() {
01014     bool ok;
01015     QString srcDir = QDir::cleanPath(
01016         Util::getDir(ui->treeView->currentIndex(), false, model, proxyModel));
01017     QString srcDirName = QDir(srcDir).dirName();
01018     QString newName =
01019         QDialog::getText(this, tr("Rename file"), tr("Rename Folder To: "),
01020             QLineEdit::Normal, srcDirName, &ok);
01021     if (!ok || newName.isEmpty())
01022         return;
01023     QString destDir = srcDir;
01024     destDir.replace(srcDir.lastIndexOf(srcDirName), srcDirName.length(), newName);
01025     QtPassSettings::getPass()->Move(srcDir, destDir);
01026 }
01027
01032 void MainWindow::editPassword(const QString &file) {
01033     if (!file.isEmpty()) {
01034         if (QtPassSettings::isUseGit() && QtPassSettings::isAutoPull())
01035             onUpdate(true);
01036         setPassword(file, false);
01037     }
01038 }
01039
01043 void MainWindow::renamePassword() {
01044     bool ok;
01045     QString file = getFile(ui->treeView->currentIndex(), false);
01046     QString filePath = QFileInfo(file).path();
01047     QString fileName = QFileInfo(file).fileName();
01048     if (fileName.endsWith(".gpg", Qt::CaseInsensitive))
01049         fileName.chop(4);
01050
01051     QString newName =
01052         QDialog::getText(this, tr("Rename file"), tr("Rename File To: "),
01053             QLineEdit::Normal, fileName, &ok);
01054     if (!ok || newName.isEmpty())
01055         return;
01056     QString newFile = QDir(filePath).filePath(newName);
01057     QtPassSettings::getPass()->Move(file, newFile);
01058 }
01059
01064 void MainWindow::clearTemplateWidgets() {
01065     while (ui->gridLayout->count() > 0) {
01066         QLayoutItem *item = ui->gridLayout->takeAt(0);
01067         delete item->widget();
01068         delete item;
01069     }
01070     ui->verticalLayoutPassword->setSpacing(0);
01071 }
01072
01073 void MainWindow::copyPasswordFromTreeview() {
01074     QFileInfo fileOrFolder =
01075         model.fileInfo(proxyModel.mapToSource(ui->treeView->currentIndex()));
01076
01077     if (fileOrFolder.isFile()) {
01078         QString file = getFile(ui->treeView->currentIndex(), true);
01079         connect(QtPassSettings::getPass(), &Pass::finishedShow, this,
01080             &MainWindow::passwordFromFileToClipboard);
01081         QtPassSettings::getPass()->Show(file);
01082     }
01083 }
01084
01085 void MainWindow::passwordFromFileToClipboard(const QString &text) {
01086     QStringList tokens = text.split('\n');
01087     m_qtPass->copyTextToClipboard(tokens[0]);
01088 }
01089
01096 void MainWindow::addToGridLayout(int position, const QString &field,
01097     const QString &value) {
01098     QString trimmedField = field.trimmed();
01099     QString trimmedValue = value.trimmed();
01100
01101     // Combine the Copy button and the line edit in one widget
01102     QFrame *frame = new QFrame();
01103     QLayout *ly = new QHBoxLayout();
01104     ly->setContentsMargins(5, 2, 2, 2);
01105     ly->setSpacing(0);
01106     frame->setLayout(ly);
01107     if (QtPassSettings::getClipboardType() != Enums::CLIPBOARD_NEVER) {
01108         auto *fieldLabel = new QPushButtonWithClipboard(trimmedValue, this);
01109         connect(fieldLabel, &QPushButtonWithClipboard::clicked, m_qtPass,
01110             &QtPass::copyTextToClipboard);

```



```

01111
01112     fieldLabel->setStyleSheet(
01113         "border-style: none ; background: transparent; padding: 0; margin: 0;");
01114     frame->layout()->addWidget(fieldLabel);
01115 }
01116
01117 if (QtPassSettings::isUseQrencode()) {
01118     QPushButtonAsQRCode *qrbbutton = new QPushButtonAsQRCode(trimmedValue, this);
01119     connect(qrbbutton, &QPushButtonAsQRCode::clicked, m_qtPass,
01120         &QtPass::showTextAsQRCode);
01121     qrbbutton->setStyleSheet(
01122         "border-style: none ; background: transparent; padding: 0; margin: 0;");
01123     frame->layout()->addWidget(qrbbutton);
01124 }
01125
01126 // set the echo mode to password, if the field is "password"
01127 const QString lineStyle =
01128     QtPassSettings::isUseMonospace()
01129     ? "border-style: none; background: transparent; font-family: "
01130       "monospace;"
01131     : "border-style: none; background: transparent;";
01132
01133 if (QtPassSettings::isHidePassword() && trimmedField == tr("Password")) {
01134
01135     auto *line = new QLineEdit();
01136     line->setObjectName(trimmedField);
01137     line->setText(trimmedValue);
01138     line->setReadOnly(true);
01139     line->setStyleSheet(lineStyle);
01140     line->setContentsMargins(0, 0, 0, 0);
01141     line->setEchoMode(QLineEdit::Password);
01142     QPushButtonShowPassword *showButton =
01143         new QPushButtonShowPassword(line, this);
01144     showButton->setStyleSheet(
01145         "border-style: none ; background: transparent; padding: 0; margin: 0;");
01146     showButton->setContentsMargins(0, 0, 0, 0);
01147     frame->layout()->addWidget(showButton);
01148     frame->layout()->addWidget(line);
01149 } else {
01150     auto *line = new QTextBrowser();
01151     line->setOpenExternalLinks(true);
01152     line->setOpenLinks(true);
01153     line->setMaximumHeight(26);
01154     line->setMinimumHeight(26);
01155     line->setSizePolicy(
01156         QSizePolicy(QSizePolicy::Expanding, QSizePolicy::Minimum));
01157     line->setObjectName(trimmedField);
01158     trimmedValue.replace(Util::protocolRegex(), R"(<a href="\1">\1</a>)");
01159     line->setText(trimmedValue);
01160     line->setReadOnly(true);
01161     line->setStyleSheet(lineStyle);
01162     line->setContentsMargins(0, 0, 0, 0);
01163     frame->layout()->addWidget(line);
01164 }
01165
01166 frame->setStyleSheet(
01167     ".QFrame{border: 1px solid lightgrey; border-radius: 5px;}");
01168
01169 // set into the layout
01170 ui->gridLayout->addWidget(new QLabel(trimmedField), position, 0);
01171 ui->gridLayout->addWidget(frame, position, 1);
01172 }
01173
01180 void MainWindow::showStatusMessage(QString msg, int timeout) {
01181     ui->statusBar->showMessage(msg, timeout);
01182 }
01183
01187 void MainWindow::startReencryptPath() {
01188     setUiElementsEnabled(false);
01189     ui->treeView->setDisabled(true);
01190 }
01191
01195 void MainWindow::endReencryptPath() { setUiElementsEnabled(true); }
01196
01197 void MainWindow::updateGitButtonVisibility() {
01198     if (!QtPassSettings::isUseGit() ||
01199         (QtPassSettings::getGitExecutable().isEmpty() &&
01200          QtPassSettings::getPassExecutable().isEmpty())) {
01201         enableGitButtons(false);
01202     } else {
01203         enableGitButtons(true);
01204     }
01205 }
01206
01207 void MainWindow::updateOtpButtonVisibility() {
01208     #if defined(Q_OS_WIN) || defined(__APPLE__)
01209     ui->actionOtp->setVisible(false);

```

```

01210 #endif
01211     if (!QtPassSettings::isUseOtp())
01212         ui->actionOtp->setEnabled(false);
01213     else
01214         ui->actionOtp->setEnabled(true);
01215 }
01216
01217 void MainWindow::enableGitButtons(const bool &state) {
01218     // Following GNOME guidelines is preferable disable buttons instead of hide
01219     ui->actionPush->setEnabled(state);
01220     ui->actionUpdate->setEnabled(state);
01221 }
01222
01228 void MainWindow::critical(QString title, QString msg) {
01229     QMessageBox::critical(this, title, msg);
01230 }

```

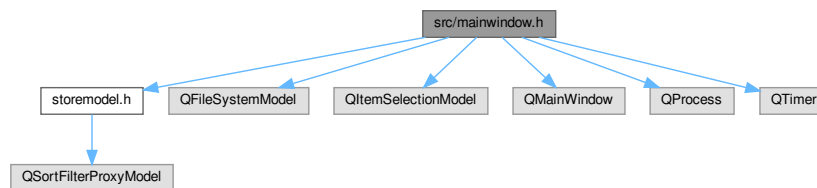
14.36 src/mainwindow.h File Reference

```

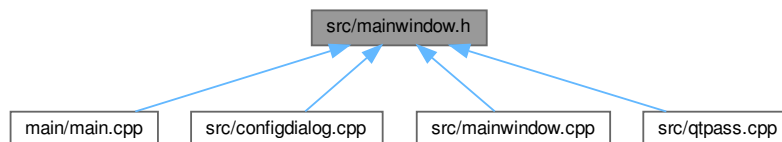
#include "storemodel.h"
#include <QFileSystemModel>
#include <QItemSelectionModel>
#include <QMainWindow>
#include <QProcess>
#include <QTimer>

```

Include dependency graph for mainwindow.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [MainWindow](#)

The [MainWindow](#) class does way too much, not only is it a switchboard, configuration handler and more, it's also the process-manager.

Namespaces

- namespace [Ui](#)

Macros

- `#define` [SingleApplication](#) `QApplication`

14.36.1 Macro Definition Documentation

14.36.1.1 SingleApplication

`#define` [SingleApplication](#) `QApplication`

Definition at line 15 of file [mainwindow.h](#).

14.37 mainwindow.h

[Go to the documentation of this file.](#)

```
00001 #ifndef MAINWINDOW_H_
00002 #define MAINWINDOW_H_
00003
00004 #include "storemodel.h"
00005
00006 #include <QFileSystemModel>
00007 #include <QItemSelectionModel>
00008 #include <QMainWindow>
00009 #include <QProcess>
00010 #include <QTimer>
00011
00012 #if SINGLE_APP
00013 class SingleApplication;
00014 #else
00015 #define SingleApplication QApplication
00016 #endif
00017
00018 #ifdef __APPLE__
00019 // http://doc.qt.io/qt-5/qkeysequence.html#qt_set_sequence_auto_mnemonic
00020 void qt_set_sequence_auto_mnemonic(bool b);
00021 #endif
00022
00023 namespace Ui {
00024 class MainWindow;
00025 }
00026
00027 class QDialog;
00028 class QtPass;
00029 class TrayIcon;
00030 class MainWindow : public QMainWindow {
00031     Q_OBJECT
00032
00033 public:
00034     explicit MainWindow(const QString &searchText = QString(),
00035                         QWidget *parent = nullptr);
00036     ~MainWindow();
00037
00038     void restoreWindow();
00039     void generateKeyPair(QString, QDialog *);
00040     void userDialog(QString = "");
00041     void config();
00042
00043     void setUiElementsEnabled(bool state);
00044     void flashText(const QString &text, const bool isError,
00045                   const bool isHtml = false);
```

```

00053
00054     const QModelIndex getCurrentTreeViewIndex();
00055
00056     QDialog *getKeygenDialog() { return this->keygen; }
00057     void cleanKeygenDialog();
00058
00059 protected:
00060     void closeEvent(QCloseEvent *event);
00061     void keyPressEvent(QKeyEvent *event);
00062     void changeEvent(QEvent *event);
00063     bool eventFilter(QObject *obj, QEvent *event);
00064
00065 signals:
00066     void passShowHandlerFinished(QString output);
00067     void passGitInitNeeded();
00068     void generateGPGKeyPair(QString batch);
00069
00070 public slots:
00071     void deselect();
00072
00073     void messageAvailable(QString message);
00074     void critical(QString, QString);
00075
00076     void executeWrapperStarted();
00077     void showStatusMessage(QString msg, int timeout = 2000);
00078     void passShowHandler(const QString &);
00079     void passOtpHandler(const QString &);
00080
00081     void onPush();
00082     void on_treeView_clicked(const QModelIndex &index);
00083
00084     void startReencryptPath();
00085     void endReencryptPath();
00086
00087 private slots:
00088     void addPassword();
00089     void addFolder();
00090     void onEdit();
00091     void onDelete();
00092     void onOtp();
00093     void onUpdate(bool block = false);
00094     void onUsers();
00095     void onConfig();
00096     void on_treeView_doubleClicked(const QModelIndex &index);
00097     void clearPanel(bool notify = true);
00098     void on_lineEdit_textChanged(const QString &arg1);
00099     void on_lineEdit_returnPressed();
00100     void on_profileBox_currentIndexChanged(QString);
00101     void showContextMenu(const QPoint &pos);
00102     void showBrowserContextMenu(const QPoint &pos);
00103     void openFolder();
00104     void renameFolder();
00105     void editPassword(const QString &);
00106     void renamePassword();
00107     void focusInput();
00108     void copyPasswordFromTreeview();
00109     void passwordFromFileToClipboard(const QString &text);
00110     void onTimeoutSearch();
00111
00112 private:
00113     QtPass *m_qtPass;
00114     QScopedPointer<Ui::MainWindow> ui;
00115     QFileSystemModel model;
00116     StoreModel proxyModel;
00117     QScopedPointer<QItemSelectionModel> selectionModel;
00118     QTimer clearPanelTimer, searchTimer;
00119     QDialog *keygen;
00120     QString currentDir;
00121     TrayIcon *tray;
00122
00123     void initToolBarButtons();
00124     void initStatusBar();
00125
00126     void updateText();
00127     void selectFirstFile();
00128     QModelIndex firstFile(QModelIndex parentIndex);
00129     QString getFile(const QModelIndex &, bool);
00130     void setPassword(QString, bool isNew = true);
00131
00132     void updateProfileBox();
00133     void initTrayIcon();
00134     void destroyTrayIcon();
00135     void clearTemplateWidgets();
00136     void reencryptPath(QString dir);
00137     void addToGridLayout(int position, const QString &field,
00138                          const QString &value);
00139

```

```

00140 void updateGitButtonVisibility();
00141 void updateOtpButtonVisibility();
00142 void enableGitButtons(const bool &);
00143 };
00144
00145 #endif // MAINWINDOW_H_

```

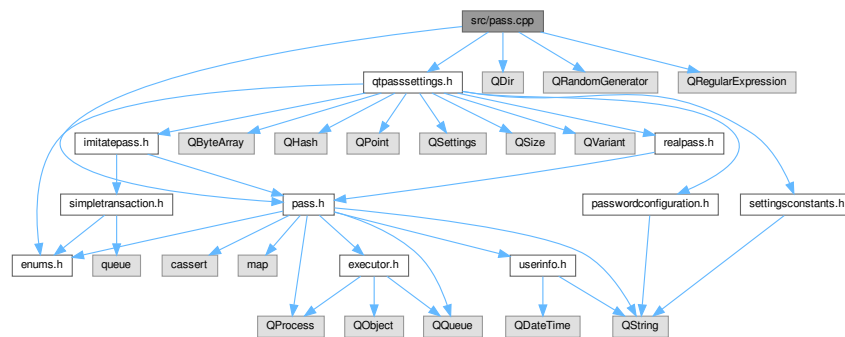
14.38 src/pass.cpp File Reference

```

#include "pass.h"
#include "qtpasssettings.h"
#include <QDir>
#include <QRandomGenerator>
#include <QRegularExpression>

```

Include dependency graph for pass.cpp:



14.39 pass.cpp

[Go to the documentation of this file.](#)

```

00001 #include "pass.h"
00002 #include "qtpasssettings.h"
00003 #include <QDir>
00004 #include <QRandomGenerator>
00005 #include <QRegularExpression>
00006
00007 #ifdef QT_DEBUG
00008 #include "debughelper.h"
00009 #endif
00010
00011 using namespace std;
00012 using namespace Enums;
00013
00017 Pass::Pass() : wrapperRunning(false), env(QProcess::systemEnvironment()) {
00018     connect(&exec,
00019             static_cast<void (Executor::*)>(int, int, const QString &,
00020             const QString &)>(&Executor::finished),
00021             this, &Pass::finished);
00022
00023     // TODO(bezet): stop using process
00024     // connect(&process, SIGNAL(error(QProcess::ProcessError)), this,
00025     //         SIGNAL(error(QProcess::ProcessError)));
00026
00027     connect(&exec, &Executor::starting, this, &Pass::startingExecuteWrapper);
00028     env.append("WSLENV=PASSWORD_STORE_DIR/p");
00029 }
00030
00031 void Pass::executeWrapper(PROCESS id, const QString &app,
00032                          const QStringList &args, bool readStdout,
00033                          bool readStderr) {
00034     executeWrapper(id, app, args, QString(), readStdout, readStderr);

```

```

00035 }
00036
00037 void Pass::executeWrapper(PROCESS id, const QString &app,
00038                          const QStringList &args, QString input,
00039                          bool readStdout, bool readStderr) {
00040     #ifdef QT_DEBUG
00041         dbg() << app << args;
00042     #endif
00043     exec.execute(id, QtPassSettings::getPassStore(), app, args, input, readStdout,
00044                readStderr);
00045 }
00046
00047 void Pass::init() {
00048     #ifdef __APPLE__
00049         // If it exists, add the gpgtools to PATH
00050         if (QFile("/usr/local/MacGPG2/bin").exists())
00051             env.replaceInStrings("PATH=", "PATH=/usr/local/MacGPG2/bin:");
00052         // Add missing /usr/local/bin
00053         if (env.filter("/usr/local/bin").isEmpty())
00054             env.replaceInStrings("PATH=", "PATH=/usr/local/bin:");
00055     #endif
00056
00057     if (!QtPassSettings::getGpgHome().isEmpty()) {
00058         QDir absHome(QtPassSettings::getGpgHome());
00059         absHome.makeAbsolute();
00060         env << "GNUPGHOME=" + absHome.path();
00061     }
00062 }
00063
00071 QString Pass::Generate_b(unsigned int length, const QString &charset) {
00072     QString passwd;
00073     if (QtPassSettings::isUsePwgen()) {
00074         // --secure goes first as it overrides --no-* otherwise
00075         QStringList args;
00076         args.append("-l");
00077         if (!QtPassSettings::isLessRandom())
00078             args.append("--secure");
00079         args.append(QtPassSettings::isAvoidCapitals() ? "--no-capitalize"
00080                : "--capitalize");
00081         args.append(QtPassSettings::isAvoidNumbers() ? "--no-numerals"
00082                : "--numerals");
00083         if (QtPassSettings::isUseSymbols())
00084             args.append("--symbols");
00085         args.append(QString::number(length));
00086         // TODO(bezet): try-catch here(2 statuses to merge o_o)
00087         if (exec.executeBlocking(QtPassSettings::getPwgenExecutable(), args,
00088                                &passwd) == 0) {
00089             static const QRegularExpression literalNewLines{"[\\n\\r]"};
00090             passwd.remove(literalNewLines);
00091         } else {
00092             passwd.clear();
00093         }
00094         #ifdef QT_DEBUG
00095         qDebug() << __FILE__ << ":" << __LINE__ << "\t"
00096                << "pwgen fail";
00097         #endif
00098         // TODO(bezet): emit critical ?
00099     } else {
00100         if (charset.length() > 0) {
00101             passwd = generateRandomPassword(charset, length);
00102         } else {
00103             emit critical(
00104                 tr("No characters chosen"),
00105                 tr("Can't generate password, there are no characters to choose from "
00106                    "set in the configuration!"));
00107         }
00108     }
00109     return passwd;
00110 }
00111
00116 void Pass::GenerateGPGKeys(QString batch) {
00117     executeWrapper(GPG_GENKEYS, QtPassSettings::getGpgExecutable(),
00118                  {"--gen-key", "--no-tty", "--batch"}, batch);
00119     // TODO check status / error messages - probably not here, it's just started
00120     // here, see finished for details
00121     // https://github.com/IJHack/QtPass/issues/202#issuecomment-251081688
00122 }
00123
00130 QList<UserInfo> Pass::listKeys(QStringList keystings, bool secret) {
00131     QList<UserInfo> users;
00132     QStringList args = {"--no-tty", "--with-colons", "--with-fingerprint"};
00133     args.append(secret ? "--list-secret-keys" : "--list-keys");
00134
00135     for (const QString &keystring : qAsConst(keystings)) {
00136         if (!keystring.isEmpty()) {
00137             args.append(keystring);
00138         }
00139     }

```

```

00139     }
00140     QString p_out;
00141     if (exec.executeBlocking(QtPassSettings::getGpgExecutable(), args, &p_out) !=
00142         0)
00143         return users;
00144     static const QRegularExpression newLines{"[\\r\\n]"};
00145     #if QT_VERSION >= QT_VERSION_CHECK(5, 15, 0)
00146     const QStringList keys = p_out.split(newLines, Qt::SkipEmptyParts);
00147     #else
00148     const QStringList keys = p_out.split(newLines, QString::SkipEmptyParts);
00149     #endif
00150     UserInfo current_user;
00151     for (const QString &key : keys) {
00152         QStringList props = key.split(':');
00153         if (props.size() < 10)
00154             continue;
00155         if (props[0] == (secret ? "sec" : "pub")) {
00156             if (!current_user.key_id.isEmpty())
00157                 users.append(current_user);
00158             current_user = UserInfo();
00159             current_user.key_id = props[4];
00160             current_user.name = props[9].toUtf8();
00161             current_user.validity = props[1][0].toLatin1();
00162             current_user.created.setSecsSinceEpoch(props[5].toUInt());
00163             current_user.expiry.setSecsSinceEpoch(props[6].toUInt());
00164         } else if (current_user.name.isEmpty() && props[0] == "uid") {
00165             current_user.name = props[9];
00166         } else if ((props[0] == "fpr") && props[9].endsWith(current_user.key_id)) {
00167             current_user.key_id = props[9];
00168         }
00169     }
00170     if (!current_user.key_id.isEmpty())
00171         users.append(current_user);
00172     return users;
00173 }
00174
00181 QList<UserInfo> Pass::listKeys(QString keystack, bool secret) {
00182     return listKeys(QStringList(keystack), secret);
00183 }
00184
00195 void Pass::finished(int id, int exitCode, const QString &out,
00196                    const QString &err) {
00197     auto pid = static_cast<PROCESS>(id);
00198     if (exitCode != 0) {
00199         emit processErrorExit(exitCode, err);
00200         return;
00201     }
00202     switch (pid) {
00203     case GIT_INIT:
00204         emit finishedGitInit(out, err);
00205         break;
00206     case GIT_PULL:
00207         emit finishedGitPull(out, err);
00208         break;
00209     case GIT_PUSH:
00210         emit finishedGitPush(out, err);
00211         break;
00212     case PASS_SHOW:
00213         emit finishedShow(out);
00214         break;
00215     case PASS_OTP_GENERATE:
00216         emit finishedOtpGenerate(out);
00217         break;
00218     case PASS_INSERT:
00219         emit finishedInsert(out, err);
00220         break;
00221     case PASS_REMOVE:
00222         emit finishedRemove(out, err);
00223         break;
00224     case PASS_INIT:
00225         emit finishedInit(out, err);
00226         break;
00227     case PASS_MOVE:
00228         emit finishedMove(out, err);
00229         break;
00230     case PASS_COPY:
00231         emit finishedCopy(out, err);
00232         break;
00233     case GPG_GENKEYS:
00234         emit finishedGenerateGPGKeys(out, err);
00235         break;
00236     default:
00237         #ifdef QT_DEBUG
00238         dbg() << "Unhandled process type" << pid;
00239         #endif
00240         break;
00241     }

```

```

00242 }
00243
00248 void Pass::updateEnv() {
00249     // put PASSWORD_STORE_SIGNING_KEY in env
00250     QStringList envSigningKey = env.filter("PASSWORD_STORE_SIGNING_KEY=");
00251     QString currentSigningKey = QtPassSettings::getPassSigningKey();
00252     if (envSigningKey.isEmpty()) {
00253         if (!currentSigningKey.isEmpty()) {
00254             // dbg() << "Added
00255             // PASSWORD_STORE_SIGNING_KEY with " + currentSigningKey;
00256             env.append("PASSWORD_STORE_SIGNING_KEY=" + currentSigningKey);
00257         }
00258     } else {
00259         if (currentSigningKey.isEmpty()) {
00260             // dbg() << "Removed
00261             // PASSWORD_STORE_SIGNING_KEY";
00262             env.removeAll(envSigningKey.first());
00263         } else {
00264             // dbg() << "Update
00265             // PASSWORD_STORE_SIGNING_KEY with " + currentSigningKey;
00266             env.replaceInStrings(envSigningKey.first(),
00267                                 "PASSWORD_STORE_SIGNING_KEY=" + currentSigningKey);
00268         }
00269     }
00270     // put PASSWORD_STORE_DIR in env
00271     QStringList store = env.filter("PASSWORD_STORE_DIR=");
00272     if (store.isEmpty()) {
00273         // dbg() << "Added
00274         // PASSWORD_STORE_DIR";
00275         env.append("PASSWORD_STORE_DIR=" + QtPassSettings::getPassStore());
00276     } else {
00277         // dbg() << "Update
00278         // PASSWORD_STORE_DIR with " + passStore;
00279         env.replaceInStrings(store.first(), "PASSWORD_STORE_DIR=" +
00280                                 QtPassSettings::getPassStore());
00281     }
00282     exec.setEnvironment(env);
00283 }
00284
00290 QString Pass::getGpgIdPath(QString for_file) {
00291     QString passStore =
00292         QDir::fromNativeSeparators(QtPassSettings::getPassStore());
00293     QDir gpgIdDir(
00294         QFileInfo(QDir::fromNativeSeparators(for_file).startsWith(passStore)
00295                 ? for_file
00296                 : QtPassSettings::getPassStore() + for_file)
00297         .absoluteDir());
00298     bool found = false;
00299     while (gpgIdDir.exists() && gpgIdDir.absolutePath().startsWith(passStore)) {
00300         if (QFile(gpgIdDir.absoluteFilePath(".gpg-id")).exists()) {
00301             found = true;
00302             break;
00303         }
00304         if (!gpgIdDir.cdUp())
00305             break;
00306     }
00307     QString gpgIdPath(found ? gpgIdDir.absoluteFilePath(".gpg-id")
00308                        : QtPassSettings::getPassStore() + ".gpg-id");
00309     return gpgIdPath;
00310 }
00311
00312
00318 QStringList Pass::getRecipientList(QString for_file) {
00319     QFile gpgId(getGpgIdPath(for_file));
00320     if (!gpgId.open(QIODevice::ReadOnly | QIODevice::Text))
00321         return QStringList();
00322     QStringList recipients;
00323     while (!gpgId.atEnd()) {
00324         QString recipient(gpgId.readLine());
00325         recipient = recipient.trimmed();
00326         if (!recipient.isEmpty())
00327             recipients += recipient;
00328     }
00329     return recipients;
00330 }
00331
00339 QStringList Pass::getRecipientString(QString for_file, QString separator,
00340                                     int *count) {
00341     Q_UNUSED(separator)
00342     Q_UNUSED(count)
00343     return Pass::getRecipientList(for_file);
00344 }
00345
00346 /* Copyright (C) 2017 Jason A. Donenfeld <Jason@zx2c4.com>. All Rights Reserved.
00347 */
00348
00349 quint32 Pass::boundedRandom(quint32 bound) {

```



```

00350     if (bound < 2) {
00351         return 0;
00352     }
00353     quint32 randval;
00354     const quint32 max_mod_bound = (1 + ~bound) % bound;
00355     do {
00356         randval = QRandomGenerator::system()->generate();
00357     } while (randval < max_mod_bound);
00358     return randval % bound;
00359 }
00360
00361 QString Pass::generateRandomPassword(const QString &charset,
00362                                     unsigned int length) {
00363     QString out;
00364     for (unsigned int i = 0; i < length; ++i) {
00365         out.append(charset.at(static_cast<int>(
00366             boundedRandom(static_cast<quint32>(charset.length()))));
00367     }
00368     return out;
00369 }
00370
00371 return out;
00372 }

```

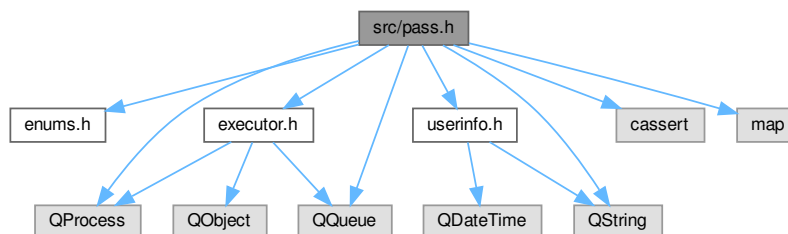
14.40 src/pass.h File Reference

```

#include "enums.h"
#include "executor.h"
#include "userinfo.h"
#include <QProcess>
#include <QQueue>
#include <QString>
#include <cassert>
#include <map>

```

Include dependency graph for pass.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [Pass](#)

Acts as an abstraction for pass or pass imitation.

14.41 pass.h

[Go to the documentation of this file.](#)

```

00001 #ifndef PASS_H
00002 #define PASS_H
00003
00004 #include "enums.h"
00005 #include "executor.h"
00006 #include "userinfo.h"
00007
00008 #include <QProcess>
00009 #include <QQueue>
00010 #include <QString>
00011 #include <cassert>
00012 #include <map>
00013
00018 class Pass : public QObject {
00019     Q_OBJECT
00020
00021     bool wrapperRunning;
00022     QStringList env;
00023
00024 protected:
00025     Executor exec;
00026
00027     typedef Enums::PROCESS PROCESS;
00028
00029 public:
00030     Pass();
00031     void init();
00032
00033     virtual ~Pass() {}
00034     virtual void GitInit() = 0;
00035     virtual void GitPull() = 0;
00036     virtual void GitPull_b() = 0;
00037     virtual void GitPush() = 0;
00038     virtual void Show(QString file) = 0;
00039     virtual void OtpGenerate(QString file) = 0;
00040     virtual void Insert(QString file, QString value, bool force) = 0;
00041     virtual void Remove(QString file, bool isDir) = 0;
00042     virtual void Move(const QString srcDir, const QString dest,
00043                     const bool force = false) = 0;
00044     virtual void Copy(const QString srcDir, const QString dest,
00045                     const bool force = false) = 0;
00046     virtual void Init(QString path, const QList<UserInfo> &users) = 0;
00047     virtual QString Generate_b(unsigned int length, const QString &charset);
00048
00049     void GenerateGPGKeys(QString batch);
00050     QList<UserInfo> listKeys(QStringList keystings, bool secret = false);
00051     QList<UserInfo> listKeys(QString keystring = "", bool secret = false);
00052     void updateEnv();
00053     static QString getGpgIdPath(QString for_file);
00054     static QStringList getRecipientList(QString for_file);
00055     // TODO(bezet): getRecipientString is useless, refactor
00056     static QStringList getRecipientString(QString for_file,
00057                                         QString separator = " ",
00058                                         int *count = NULL);
00059
00060 protected:
00061     void executeWrapper(PROCESS id, const QString &app, const QStringList &args,
00062                       bool readStdout = true, bool readStderr = true);
00063     QString generateRandomPassword(const QString &charset, unsigned int length);
00064     quint32 boundedRandom(quint32 bound);
00065
00066     virtual void executeWrapper(PROCESS id, const QString &app,
00067                               const QStringList &args, QString input,
00068                               bool readStdout = true, bool readStderr = true);
00069
00070 protected slots:
00071     virtual void finished(int id, int exitCode, const QString &out,
00072                         const QString &err);
00073
00074 signals:
00075     void error(QProcess::ProcessError);
00076     void startingExecuteWrapper();
00077     void statusMsg(QString, int);
00078     void critical(QString, QString);
00079
00080     void processErrorExit(int exitCode, const QString &err);
00081
00082     void finishedAny(const QString &, const QString &);
00083     void finishedGitInit(const QString &, const QString &);
00084     void finishedGitPull(const QString &, const QString &);
00085     void finishedGitPush(const QString &, const QString &);
00086     void finishedShow(const QString &);

```

14.42 src/passwordconfiguration.h File Reference

Include dependency graph for passwordconfiguration.h:



- ### 14.43 passwordconfiguration.h

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```

00027     ui->setupUi(this);
00028     setLength(m_passConfig.length);
00029     setPasswordCharTemplate(m_passConfig.selected);
00030
00031     connect(QtPassSettings::getPass(), &Pass::finishedShow, this,
00032             &PasswordDialog::setPass);
00033 }
00034
00041 PasswordDialog::PasswordDialog(const QString &file, const bool &isNew,
00042                                QWidget *parent)
00043     : QDialog(parent), ui(new Ui::PasswordDialog), m_file(file),
00044       m_isNew(isNew) {
00045
00046     if (!isNew)
00047         QtPassSettings::getPass()->Show(m_file);
00048
00049     ui->setupUi(this);
00050
00051     setWindowTitle(this->windowTitle() + " " + m_file);
00052     m_passConfig = QtPassSettings::getPasswordConfiguration();
00053     usePwgen(QtPassSettings::isUsePwgen());
00054     setTemplate(QtPassSettings::getPassTemplate(),
00055                QtPassSettings::isUseTemplate());
00056     templateAll(QtPassSettings::isTemplateAllFields());
00057
00058     setLength(m_passConfig.length);
00059     setPasswordCharTemplate(m_passConfig.selected);
00060
00061     connect(QtPassSettings::getPass(), &Pass::finishedShow, this,
00062             &PasswordDialog::setPass);
00063     connect(QtPassSettings::getPass(), &Pass::processErrorExit, this,
00064             &PasswordDialog::close);
00065     connect(this, &PasswordDialog::accepted, this, &PasswordDialog::on_accepted);
00066     connect(this, &PasswordDialog::rejected, this, &PasswordDialog::on_rejected);
00067 }
00068
00072 PasswordDialog::~PasswordDialog() { delete ui; }
00073
00078 void PasswordDialog::on_checkBoxShow_stateChanged(int arg1) {
00079     if (arg1)
00080         ui->lineEditPassword->setEchoMode(QLineEdit::Normal);
00081     else
00082         ui->lineEditPassword->setEchoMode(QLineEdit::Password);
00083 }
00084
00090 void PasswordDialog::on_createPasswordButton_clicked() {
00091     ui->widget->setEnabled(false);
00092     QString newPass = QtPassSettings::getPass()->Generate_b(
00093         static_cast<unsigned int>(ui->spinBox_pwdLength->value()),
00094         m_passConfig.Characters[static_cast<PasswordConfiguration::characterSet>(
00095             ui->passwordTemplateSwitch->currentIndex())]);
00096     if (newPass.length() > 0)
00097         ui->lineEditPassword->setText(newPass);
00098     ui->widget->setEnabled(true);
00099 }
00100
00104 void PasswordDialog::on_accepted() {
00105     QString newValue = getPassword();
00106     if (newValue.isEmpty())
00107         return;
00108
00109     if (newValue.right(1) != "\n")
00110         newValue += "\n";
00111
00112     QtPassSettings::getPass()->Insert(m_file, newValue, !m_isNew);
00113 }
00114
00118 void PasswordDialog::on_rejected() { setPassword(QString()); }
00119
00124 void PasswordDialog::setPassword(QString password) {
00125     FileContent fileContent = FileContent::parse(
00126         password, m_templating ? m_fields : QStringList(), m_allFields);
00127     ui->lineEditPassword->setText(fileContent.getPassword());
00128
00129     QWidget *previous = ui->checkBoxShow;
00130     // first set templated values
00131     NamedValues namedValues = fileContent.getNamedValues();
00132     for (QLineEdit *line : qAsConst(templateLines)) {
00133         line->setText(namedValues.takeValue(line->objectName()));
00134         previous = line;
00135     }
00136     // show remaining values (if there are)
00137     otherLines.clear();
00138     for (const NamedValue &nv : qAsConst(namedValues)) {
00139         auto *line = new QLineEdit();
00140         line->setObjectName(nv.name);
00141         line->setText(nv.value);

```

```

00142     ui->formLayout->addRow(new QLabel(nv.name), line);
00143     setTabOrder(previous, line);
00144     otherLines.append(line);
00145     previous = line;
00146 }
00147
00148 ui->plainTextEdit->insertPlainText(fileContent.getRemainingData());
00149 }
00150
00156 QString PasswordDialog::getPassword() {
00157     QString passFile = ui->lineEditPassword->text() + "\n";
00158     QList<QLineEdit *> allLines(templateLines);
00159     allLines.append(otherLines);
00160     for (QLineEdit *line : allLines) {
00161         QString text = line->text();
00162         if (text.isEmpty())
00163             continue;
00164         passFile += line->objectName() + ": " + text + "\n";
00165     }
00166     passFile += ui->plainTextEdit->toPlainText();
00167     return passFile;
00168 }
00169
00174 void PasswordDialog::setTemplate(QString rawFields, bool useTemplate) {
00175     m_fields = rawFields.split('\n');
00176     m_templating = useTemplate;
00177     templateLines.clear();
00178
00179     if (m_templating) {
00180         QWidget *previous = ui->checkBoxShow;
00181         foreach (QString field, m_fields) {
00182             if (field.isEmpty())
00183                 continue;
00184             auto *line = new QLineEdit();
00185             line->setObjectName(field);
00186             ui->formLayout->addRow(new QLabel(field), line);
00187             setTabOrder(previous, line);
00188             templateLines.append(line);
00189             previous = line;
00190         }
00191     }
00192 }
00193
00199 void PasswordDialog::templateAll(bool templateAll) {
00200     m_allFields = templateAll;
00201 }
00202
00208 void PasswordDialog::setLength(int l) { ui->spinBox_pwdLength->setValue(l); }
00209
00215 void PasswordDialog::setPasswordCharTemplate(int t) {
00216     ui->passwordTemplateSwitch->setCurrentIndex(t);
00217 }
00218
00224 void PasswordDialog::usePwgen(bool usePwgen) {
00225     ui->passwordTemplateSwitch->setDisabled(usePwgen);
00226     ui->label_characterset->setDisabled(usePwgen);
00227 }
00228
00229 void PasswordDialog::setPass(const QString &output) {
00230     setPassword(output);
00231     // TODO(bezet): enable ui
00232 }

```

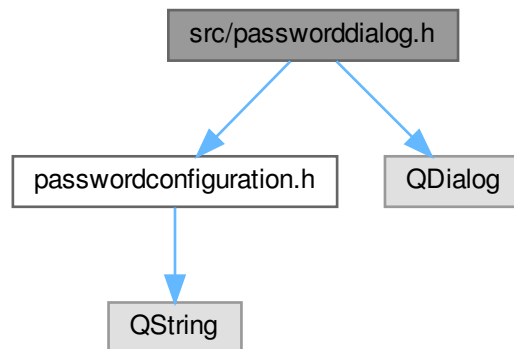
14.46 src/passworddialog.h File Reference

```

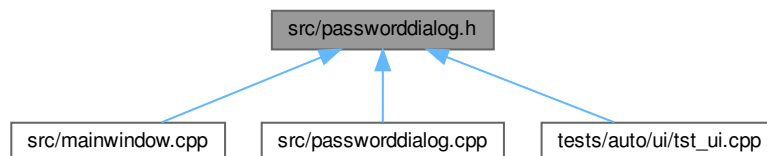
#include "passwordconfiguration.h"
#include <QDialog>

```

Include dependency graph for passworddialog.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [PasswordDialog](#)
PasswordDialog Handles the inserting and editing of passwords.

Namespaces

- namespace [Ui](#)

14.47 passworddialog.h

[Go to the documentation of this file.](#)

```

00001 #ifndef PASSWORDDIALOG_H_
00002 #define PASSWORDDIALOG_H_
00003
00004 #include "passwordconfiguration.h"
00005 #include <QDialog>
00006
00007 namespace Ui {

```

```

00008 class PasswordDialog;
00009 }
00010
00011 class QLineEdit;
00012 class QWidget;
00013
00020 class PasswordDialog : public QDialog {
00021     Q_OBJECT
00022
00023 public:
00024     explicit PasswordDialog(const PasswordConfiguration &passConfig,
00025                             QWidget *parent = nullptr);
00026     PasswordDialog(const QString &file, const bool &isNew,
00027                   QWidget *parent = nullptr);
00028     ~PasswordDialog();
00029
00034     void setPassword(QString password);
00035
00040     QString getPassword();
00041
00046     void setTemplate(QString rawFields, bool useTemplate);
00047
00048     void templateAll(bool templateAll);
00049     void setLength(int l);
00050     void setPasswordCharTemplate(int t);
00051     void usePwgen(bool usePwgen);
00052
00053 public slots:
00054     void setPass(const QString &output);
00055
00056 private slots:
00057     void on_checkBoxShow_stateChanged(int arg1);
00058     void on_createPasswordButton_clicked();
00059     void on_accepted();
00060     void on_rejected();
00061
00062 private:
00063     Ui::PasswordDialog *ui;
00064     PasswordConfiguration m_passConfig;
00065     QStringList m_fields;
00066     QString m_file;
00067     bool m_templating;
00068     bool m_allFields;
00069     bool m_isNew;
00070     QList<QLineEdit *> templateLines;
00071     QList<QLineEdit *> otherLines;
00072 };
00073
00074 #endif // PASSWORDDIALOG_H_

```

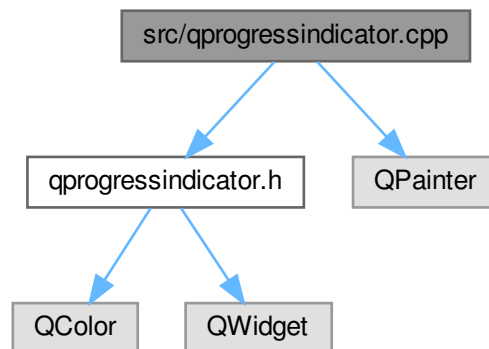
14.48 src/qprogressindicator.cpp File Reference

```

#include "qprogressindicator.h"
#include <QPainter>

```


Include dependency graph for qprogressindicator.cpp:



14.49 qprogressindicator.cpp

[Go to the documentation of this file.](#)

```

00001  /*
00002  * This code is based on https://github.com/mojocorp/QProgressIndicator
00003  * and published under
00004  *
00005  * The MIT License (MIT)
00006  *
00007  * Copyright (c) 2011 Morgan Leborgne
00008  *
00009  * Permission is hereby granted, free of charge, to any person obtaining a copy
00010  * of this software and associated documentation files (the "Software"), to deal
00011  * in the Software without restriction, including without limitation the rights
00012  * to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
00013  * copies of the Software, and to permit persons to whom the Software is
00014  * furnished to do so, subject to the following conditions:
00015  *
00016  * The above copyright notice and this permission notice shall be included in
00017  * all copies or substantial portions of the Software.
00018  *
00019  * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
00020  * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
00021  * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
00022  * AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
00023  * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00024  * OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00025  * SOFTWARE.
00026  */
00027  #include "qprogressindicator.h"
00028  #include <QPainter>
00029
00034  QProgressIndicator::QProgressIndicator(QWidget *parent)
00035      : QWidget(parent), m_angle(0), m_timerId(-1), m_delay(40),
00036        m_displayedWhenStopped(false), m_color(Qt::black) {
00037      setSizePolicy(QSizePolicy::Fixed, QSizePolicy::Fixed);
00038      setFocusPolicy(Qt::NoFocus);
00039  }
00040
00041  bool QProgressIndicator::isAnimated() const { return m_timerId != -1; }
00042
00043  void QProgressIndicator::setDisplayWhenStopped(bool state) {
00044      m_displayedWhenStopped = state;
00045
00046      update();
00047  }
00048
00049  bool QProgressIndicator::isDisplayedWhenStopped() const {
00050      return m_displayedWhenStopped;
00051  }

```

```

00052
00053 void QProgressIndicator::startAnimation() {
00054     m_angle = 0;
00055
00056     if (m_timerId == -1)
00057         m_timerId = startTimer(m_delay);
00058 }
00059
00060 void QProgressIndicator::stopAnimation() {
00061     if (m_timerId != -1)
00062         killTimer(m_timerId);
00063
00064     m_timerId = -1;
00065
00066     update();
00067 }
00068
00069 void QProgressIndicator::setAnimationDelay(int delay) {
00070     if (m_timerId != -1)
00071         killTimer(m_timerId);
00072
00073     m_delay = delay;
00074
00075     if (m_timerId != -1)
00076         m_timerId = startTimer(m_delay);
00077 }
00078
00079 void QProgressIndicator::setColor(const QColor &color) {
00080     m_color = color;
00081
00082     update();
00083 }
00084
00089 QSize QProgressIndicator::sizeHint() const { return {20, 20}; }
00090
00096 int QProgressIndicator::heightForWidth(int w) const { return w; }
00097
00101 void QProgressIndicator::timerEvent(QTimerEvent * /*event*/) {
00102     m_angle = (m_angle + 30) % 360;
00103
00104     update();
00105 }
00106
00110 void QProgressIndicator::paintEvent(QPaintEvent * /*event*/) {
00111     if (!m_displayedWhenStopped && !isAnimated())
00112         return;
00113
00114     int width = qMin(this->width(), this->height());
00115
00116     QPainter p(this);
00117     p.setRenderHint(QPainter::Antialiasing);
00118
00119     auto outerRadius = int((width - 1) * 0.5);
00120     auto innerRadius = int((width - 1) * 0.5 * 0.38);
00121
00122     int capsuleHeight = outerRadius - innerRadius;
00123     int capsuleWidth =
00124         (width > 32) ? int(capsuleHeight * 0.23) : int(capsuleHeight * 0.35);
00125     int capsuleRadius = capsuleWidth / 2;
00126
00127     for (int i = 0; i < 12; ++i) {
00128         QColor color = m_color;
00129         color.setAlphaF(int(1.0f - (i / 12.0f)));
00130         p.setPen(Qt::NoPen);
00131         p.setBrush(color);
00132         p.save();
00133         p.translate(rect().center());
00134         p.rotate(int(m_angle - i * 30.0f));
00135         p.drawRoundedRect(int(-capsuleWidth * 0.5), -(innerRadius + capsuleHeight),
00136             capsuleWidth, capsuleHeight, capsuleRadius,
00137             capsuleRadius);
00138         p.restore();
00139     }
00140 }

```

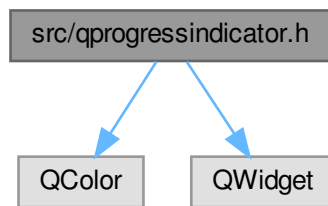
14.50 src/qprogressindicator.h File Reference

```

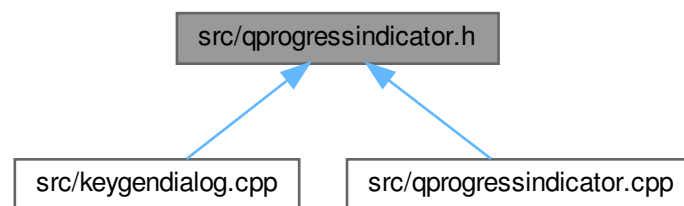
#include <QColor>
#include <QWidget>

```

Include dependency graph for qprogressbar.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [QProgressBar](#)

The [QProgressBar](#) class lets an application display a progress indicator to show that a lengthy task is under way.

14.51 qprogressbar.h

[Go to the documentation of this file.](#)

```

00001 /*
00002  * This code is based on https://github.com/mojocorp/QProgressBar
00003  * and published under
00004  *
00005  * The MIT License (MIT)
00006  *
00007  * Copyright (c) 2011 Morgan Leborgne
00008  *
00009  * Permission is hereby granted, free of charge, to any person obtaining a copy
00010  * of this software and associated documentation files (the "Software"), to deal
00011  * in the Software without restriction, including without limitation the rights
00012  * to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
00013  * copies of the Software, and to permit persons to whom the Software is
00014  * furnished to do so, subject to the following conditions:
00015  *
00016  * The above copyright notice and this permission notice shall be included in
00017  * all copies or substantial portions of the Software.
  
```

```

00018  *
00019  * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
00020  * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
00021  * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
00022  * AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
00023  * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
00024  * OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
00025  * SOFTWARE.
00026  */
00027
00028 #ifndef QPROGRESSINDICATOR_H_
00029 #define QPROGRESSINDICATOR_H_
00030
00031 #include <QColor>
00032 #include <QWidget>
00033
00043 class QProgressIndicator : public QWidget {
00044     Q_OBJECT
00045 public:
00046     explicit QProgressIndicator(QWidget *parent = 0);
00047
00053     int animationDelay() const { return m_delay; }
00054
00060     bool isAnimated() const;
00061
00068     bool isDisplayedWhenStopped() const;
00069
00073     const QColor &color() const { return m_color; }
00074
00075     virtual QSize sizeHint() const;
00076     int heightForWidth(int w) const;
00077
00078 public slots:
00082     void startAnimation();
00083
00087     void stopAnimation();
00088
00095     void setAnimationDelay(int delay);
00096
00102     void setDisplayedWhenStopped(bool state);
00103
00107     void setColor(const QColor &color);
00108
00109 protected:
00110     virtual void timerEvent(QTimerEvent *event);
00111     virtual void paintEvent(QPaintEvent *event);
00112
00113 private:
00114     int m_angle;
00115     int m_timerId;
00116     int m_delay;
00117     bool m_displayedWhenStopped;
00118     QColor m_color;
00119 };
00120
00121 #endif // QPROGRESSINDICATOR_H_

```

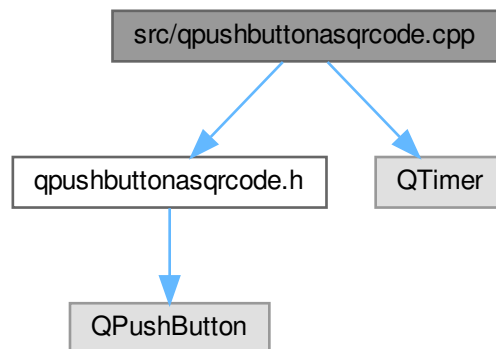
14.52 src/qpushbuttonasqrcline.cpp File Reference

```

#include "qpushbuttonasqrcline.h"
#include <QTimer>

```

Include dependency graph for qpushbuttonasqrcode.cpp:



14.53 qpushbuttonasqrcode.cpp

[Go to the documentation of this file.](#)

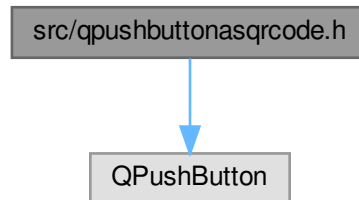
```

00001 #include "qpushbuttonasqrcode.h"
00002 #include <QTimer>
00003
00012 QPushButtonAsQRCode::QPushButtonAsQRCode(const QString &textToCopy,
00013                                           QWidget *parent)
00014     : QPushButton(parent), textToCopy(textToCopy),
00015       iconEdit(QIcon::fromTheme("qrcode", QIcon(":/icons/qrcode.svg"))) {
00016     setIcon(iconEdit);
00017     connect(this, SIGNAL(clicked(bool)), this, SLOT(buttonClicked(bool)));
00018 }
00019
00025 QString QPushButtonAsQRCode::getTextToCopy() const { return textToCopy; }
00026
00032 void QPushButtonAsQRCode::setTextToCopy(const QString &value) {
00033     textToCopy = value;
00034 }
00035
00040 void QPushButtonAsQRCode::buttonClicked(bool) { emit clicked(textToCopy); }
00041
00046 void QPushButtonAsQRCode::changeIconDefault() { this->setIcon(iconEdit); }
  
```

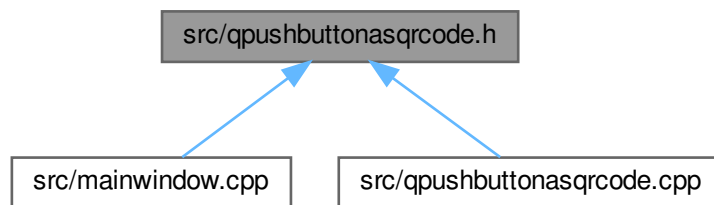
14.54 src/qpushbuttonasqrcode.h File Reference

```
#include <QPushButton>
```

Include dependency graph for qpushbuttonasqrcode.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [QPushButtonAsQRCode](#)
Stylish widget to display the field as QR Code.

14.55 qpushbuttonasqrcode.h

[Go to the documentation of this file.](#)

```

00001 #ifndef QPUSHBUTTONASQRCODE_H_
00002 #define QPUSHBUTTONASQRCODE_H_
00003
00004 #include <QPushButton>
00005
00010 class QWidget;
00011 class QPushButtonAsQRCode : public QPushButton {
00012     Q_OBJECT
00013
00014 public:
00015     explicit QPushButtonAsQRCode(const QString &textToCopy = "",

```

```

00016             QWidget *parent = nullptr);
00017
00018     QString getTextToCopy() const;
00019     void setTextToCopy(const QString &value);
00020
00021 signals:
00022     void clicked(QString);
00023
00024 private slots:
00025     void changeIconDefault();
00026     void buttonClicked(bool);
00027
00028 private:
00029     QString textToCopy;
00030     QIcon iconEdit;
00031 };
00032
00033 #endif // QPUSHBUTTONASQRCODE_H_

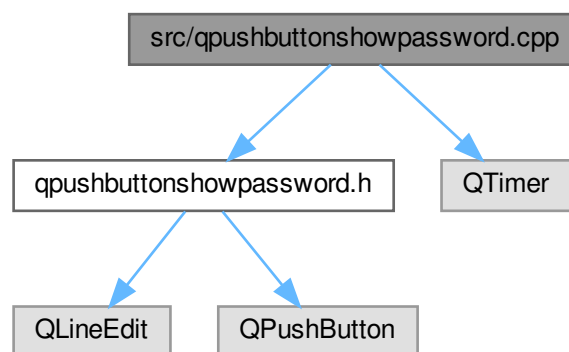
```

14.56 src/qpushbuttonshowpassword.cpp File Reference

```
#include "qpushbuttonshowpassword.h"
```

```
#include <QTimer>
```

Include dependency graph for qpushbuttonshowpassword.cpp:



14.57 qpushbuttonshowpassword.cpp

[Go to the documentation of this file.](#)

```

00001 #include "qpushbuttonshowpassword.h"
00002 #include <QTimer>
00003
00012 QPushButtonShowPassword::QPushButtonShowPassword(QLineEdit *line,
00013             QWidget *parent)
00014     : QPushButton(parent),
00015       iconEdit(QIcon::fromTheme("show", QIcon(":/icons/view.svg"))),
00016       iconEditPushed(QIcon::fromTheme("hide-new", QIcon(":/icons/hide.svg"))) {
00017     setIcon(iconEdit);
00018     connect(this, SIGNAL(clicked(bool)), this, SLOT(buttonClicked(bool)));
00019     this->line = line;
00020 }
00021
00026 void QPushButtonShowPassword::buttonClicked(bool) {
00027     if (this->line->echoMode() == QLineEdit::Password) {
00028         this->line->setEchoMode(QLineEdit::Normal);
00029         setIcon(iconEditPushed);

```

```

00030     } else {
00031         this->line->setEchoMode(QLineEdit::Password);
00032         setIcon(iconEdit);
00033     }
00034 }

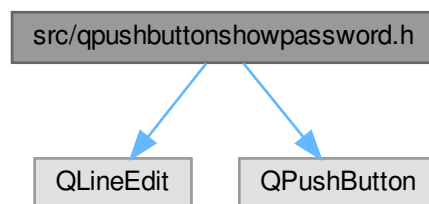
```

14.58 src/qpushbuttonshowpassword.h File Reference

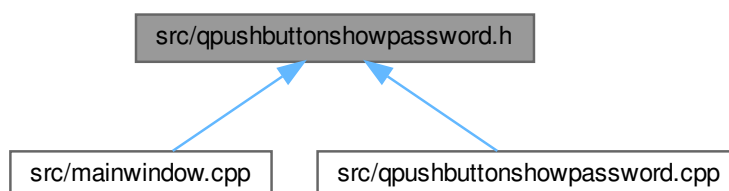
```

#include <QLineEdit>
#include <QPushButton>
Include dependency graph for qpushbuttonshowpassword.h:

```



This graph shows which files directly or indirectly include this file:



Classes

- class [QPushButtonShowPassword](#)

14.59 qpushbuttonshowpassword.h

[Go to the documentation of this file.](#)

```

00001 #ifndef QPUSHBUTTONSHOWPASSWORD_H_
00002 #define QPUSHBUTTONSHOWPASSWORD_H_
00003

```



```

00004 #include <QLineEdit>
00005 #include <QPushButton>
00006
00011 class QWidget;
00012 class QPushButtonShowPassword : public QPushButton {
00013     Q_OBJECT
00014
00015 public:
00016     explicit QPushButtonShowPassword(QLineEdit *line, QWidget *parent = nullptr);
00017
00018 signals:
00019     void clicked(QString);
00020
00021 private slots:
00022     void buttonClicked(bool);
00023
00024 private:
00025     QIcon iconEdit;
00026     QIcon iconEditPushed;
00027     QLineEdit *line;
00028 };
00029
00030 #endif // QPUSHBUTTONSHOWPASSWORD_H_

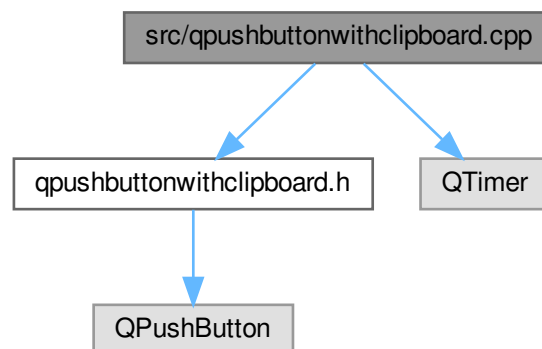
```

14.60 src/qpushbuttonwithclipboard.cpp File Reference

```
#include "qpushbuttonwithclipboard.h"
```

```
#include <QTimer>
```

Include dependency graph for qpushbuttonwithclipboard.cpp:



14.61 qpushbuttonwithclipboard.cpp

[Go to the documentation of this file.](#)

```

00001 #include "qpushbuttonwithclipboard.h"
00002 #include <QTimer>
00003
00012 QPushButtonWithClipboard::QPushButtonWithClipboard(const QString &textToCopy,
00013     QWidget *parent)
00014     : QPushButton(parent), textToCopy(textToCopy),
00015       iconEdit(QIcon::fromTheme("edit-copy", QIcon(":/icons/edit-copy.svg"))),
00016       iconEditPushed(
00017           QIcon::fromTheme("document-new", QIcon(":/icons/document-new.svg"))) {
00018     setIcon(iconEdit);
00019     connect(this, SIGNAL(clicked(bool)), this, SLOT(buttonClicked(bool)));
00020 }

```

```

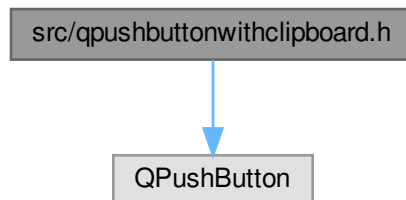
00021
00027 QString QPushButtonWithClipboard::getTextToCopy() const { return textToCopy; }
00028
00034 void QPushButtonWithClipboard::setTextToCopy(const QString &value) {
00035     textToCopy = value;
00036 }
00037
00042 void QPushButtonWithClipboard::buttonClicked(bool) {
00043     setIcon(iconEditPushed);
00044     QTimer::singleShot(500, this, SLOT(changeIconDefault()));
00045     emit clicked(textToCopy);
00046 }
00047
00052 void QPushButtonWithClipboard::changeIconDefault() { this->setIcon(iconEdit); }

```

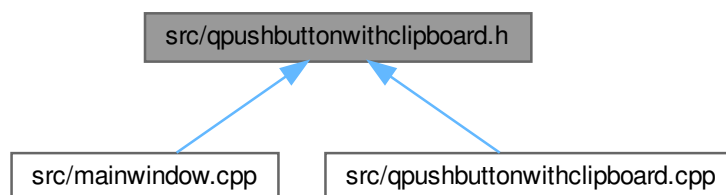
14.62 src/qpushbuttonwithclipboard.h File Reference

```
#include <QPushButton>
```

Include dependency graph for qpushbuttonwithclipboard.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [QPushButtonWithClipboard](#)
Stylish widget to allow copying of password and account details.


```

00001 #include "qtpass.h"
00002 #include "mainwindow.h"
00003 #include "qtpasssettings.h"
00004 #include "util.h"
00005 #include <QApplication>
00006 #include <QClipboard>
00007 #include <QDialog>
00008 #include <QLabel>
00009 #include <QPixmap>
00010 #include <QVBoxLayout>
00011
00012 #ifndef Q_OS_WIN
00013 #include <QInputDialog>
00014 #include <QLineEdit>
00015 #include <utility>
00016 #else
00017 #define WIN32_LEAN_AND_MEAN /*_KILLING_MACHINE*/
00018 #define WIN32_EXTRA_LEAN
00019 #include <windows.h>
00020 #include <winnetwk.h>
00021 #undef DELETE
00022 #endif
00023
00024 #ifdef QT_DEBUG
00025 #include "debughelper.h"
00026 #endif
00027
00028 QtPass::QtPass(MainWindow *mainWindow)
00029 : m_mainWindow(mainWindow), clippedText(QString()), freshStart(true) {
00030     setClipboardTimer();
00031     clearClipboardTimer.setSingleShot(true);
00032     connect(&clearClipboardTimer, SIGNAL(timeout()), this,
00033         SLOT(clearClipboard()));
00034
00035     QObject::connect(qApp, &QApplication::aboutToQuit, this,
00036         &QtPass::clearClipboard);
00037
00038     setMainWindow();
00039 }
00040
00041 QtPass::~QtPass() {
00042     #ifdef Q_OS_WIN
00043         if (QtPassSettings::isUseWebDav())
00044             WNetCancelConnection2A(QtPassSettings::getPassStore().toUtf8().constData(),
00045                 0, 1);
00046     #else
00047         if (fusedav.state() == QProcess::Running) {
00048             fusedav.terminate();
00049             fusedav.waitForFinished(2000);
00050         }
00051     #endif
00052 }
00053
00054 bool QtPass::init() {
00055     QString passStore = QtPassSettings::getPassStore(Util::findPasswdStore());
00056     QtPassSettings::setPassStore(passStore);
00057
00058     QtPassSettings::initExecutables();
00059
00060     QString version = QtPassSettings::getVersion();
00061     // dbg() << version;
00062
00063     // Config updates
00064     if (version.isEmpty()) {
00065         #ifdef QT_DEBUG
00066             dbg() << "assuming fresh install";
00067         #endif
00068
00069         if (QtPassSettings::getAutoclearSeconds() < 5)
00070             QtPassSettings::setAutoclearSeconds(10);
00071         if (QtPassSettings::getAutoclearPanelSeconds() < 5)
00072             QtPassSettings::setAutoclearPanelSeconds(10);
00073         if (!QtPassSettings::getPwgenExecutable().isEmpty())
00074             QtPassSettings::setUsePwgen(true);
00075         else
00076             QtPassSettings::setUsePwgen(false);
00077         QtPassSettings::setPassTemplate("login\nurl");
00078     } else {
00079         // QStringList ver = version.split(".");
00080         // dbg() << ver;
00081         // if (ver[0] == "0" && ver[1] == "8") {
00082         // }
00083         if (QtPassSettings::getPassTemplate().isEmpty())
00084             QtPassSettings::setPassTemplate("login\nurl");
00085     }
00086
00087     QtPassSettings::setVersion(VERSION);

```

```

00096
00097     if (Util::checkConfig()) {
00098         m_mainWindow->config();
00099         if (freshStart && Util::checkConfig())
00100             return false;
00101     }
00102
00103     // TODO(annejan): this needs to be before we try to access the store,
00104     // but it would be better to do it after the Window is shown,
00105     // as the long delay it can cause is irritating otherwise.
00106     if (QtPassSettings::isUseWebDav())
00107         mountWebDav();
00108
00109     freshStart = false;
00110     // startupPhase = false;
00111     return true;
00112 }
00113
00114 void QtPass::setMainWindow(void) {
00115     m_mainWindow->restoreWindow();
00116
00117     fusedav.setParent(m_mainWindow);
00118
00119     // TODO(bezet): this should be reconnected dynamically when pass changes
00120     connectPassSignalHandlers(QtPassSettings::getRealPass());
00121     connectPassSignalHandlers(QtPassSettings::getImitatePass());
00122
00123     connect(m_mainWindow, &MainWindow::passShowHandlerFinished, this,
00124             &QtPass::passShowHandlerFinished);
00125
00126     // only for ipass
00127     connect(QtPassSettings::getImitatePass(), &ImitatePass::startReencryptPath,
00128             m_mainWindow, &MainWindow::startReencryptPath);
00129     connect(QtPassSettings::getImitatePass(), &ImitatePass::endReencryptPath,
00130             m_mainWindow, &MainWindow::endReencryptPath);
00131
00132     connect(m_mainWindow, &MainWindow::passGitInitNeeded, [=]() {
00133 #ifdef QT_DEBUG
00134         dbg() << "Pass git init called";
00135 #endif
00136         QtPassSettings::getPass()->GitInit();
00137     });
00138
00139     connect(m_mainWindow, &MainWindow::generateGPGKeyPair, m_mainWindow,
00140             [=](const QString &batch) {
00141                 QtPassSettings::getPass()->GenerateGPGKeys(batch);
00142                 m_mainWindow->showStatusMessage(tr("Generating GPG key pair"),
00143                                                 60000);
00144             });
00145 }
00146
00147 void QtPass::connectPassSignalHandlers(Pass *pass) {
00148     connect(pass, &Pass::error, this, &QtPass::processError);
00149     connect(pass, &Pass::processErrorExit, this, &QtPass::processErrorExit);
00150     connect(pass, &Pass::critical, m_mainWindow, &MainWindow::critical);
00151     connect(pass, &Pass::startingExecuteWrapper, m_mainWindow,
00152             &MainWindow::executeWrapperStarted);
00153     connect(pass, &Pass::statusMsg, m_mainWindow, &MainWindow::showStatusMessage);
00154     connect(pass, &Pass::finishedShow, m_mainWindow,
00155             &MainWindow::passShowHandler);
00156     connect(pass, &Pass::finishedOtpGenerate, m_mainWindow,
00157             &MainWindow::passOtpHandler);
00158
00159     connect(pass, &Pass::finishedGitInit, this, &QtPass::passStoreChanged);
00160     connect(pass, &Pass::finishedGitPull, this, &QtPass::processFinished);
00161     connect(pass, &Pass::finishedGitPush, this, &QtPass::processFinished);
00162     connect(pass, &Pass::finishedInsert, this, &QtPass::finishedInsert);
00163     connect(pass, &Pass::finishedRemove, this, &QtPass::passStoreChanged);
00164     connect(pass, &Pass::finishedInit, this, &QtPass::passStoreChanged);
00165     connect(pass, &Pass::finishedMove, this, &QtPass::passStoreChanged);
00166     connect(pass, &Pass::finishedCopy, this, &QtPass::passStoreChanged);
00167     connect(pass, &Pass::finishedGenerateGPGKeys, this,
00168             &QtPass::onKeyGenerationComplete);
00169 }
00170
00171 void QtPass::mountWebDav() {
00172 #ifdef Q_OS_WIN
00173     char dst[20] = {0};
00174     NETRESOURCEA netres;
00175     memset(&netres, 0, sizeof(netres));
00176     netres.dwType = RESOURCETYPE_DISK;
00177     netres.lpLocalName = 0;
00178     netres.lpRemoteName = QtPassSettings::getWebDavUrl().toUtf8().data();
00179     DWORD size = sizeof(dst);
00180     DWORD r = WNetUseConnectionA(
00181         reinterpret_cast<HWND>(m_mainWindow->effectiveWinId()), &netres,
00182         QtPassSettings::getWebDavPassword().toUtf8().constData(),

```

```

00186         QtPassSettings::getWebDavUser().toUtf8().constData(),
00187         CONNECT_TEMPORARY | CONNECT_INTERACTIVE | CONNECT_REDIRECT, dst, &size,
00188         0);
00189     if (r == NO_ERROR) {
00190         QtPassSettings::setPassStore(dst);
00191     } else {
00192         char message[256] = {0};
00193         FormatMessageA(FORMAT_MESSAGE_FROM_SYSTEM, 0, r, 0, message,
00194             sizeof(message), 0);
00195         m_mainWindow->flashText(tr("Failed to connect WebDAV:\n") + message +
00196             " (0x" + QString::number(r, 16) + ")",
00197             true);
00198     }
00199 #else
00200     fusedav.start("fusedav", QStringList()
00201         « "-o"
00202         « "nonempty"
00203         « "-u"
00204         « "\"" + QtPassSettings::getWebDavUser() + "\""
00205         « QtPassSettings::getWebDavUrl()
00206         « "\"" + QtPassSettings::getPassStore() + "\"";
00207     fusedav.waitForStarted();
00208     if (fusedav.state() == QProcess::Running) {
00209         QString pwd = QtPassSettings::getWebDavPassword();
00210         bool ok = true;
00211         if (pwd.isEmpty()) {
00212             pwd = QInputDialog::getText(m_mainWindow, tr("QtPass WebDAV password"),
00213                 tr("Enter password to connect to WebDAV:"),
00214                 QLineEdit::Password, "", &ok);
00215         }
00216         if (ok && !pwd.isEmpty()) {
00217             fusedav.write(pwd.toUtf8() + '\n');
00218             fusedav.closeWriteChannel();
00219             fusedav.waitForFinished(2000);
00220         } else {
00221             fusedav.terminate();
00222         }
00223     }
00224     QString error = fusedav.readAllStandardError();
00225     int prompt = error.indexOf("Password:");
00226     if (prompt >= 0)
00227         error.remove(0, prompt + 10);
00228     if (fusedav.state() != QProcess::Running)
00229         error = tr("fusedav exited unexpectedly\n") + error;
00230     if (error.size() > 0) {
00231         m_mainWindow->flashText(
00232             tr("Failed to start fusedav to connect WebDAV:\n") + error, true);
00233     }
00234 #endif
00235 }
00236
00241 void QtPass::processError(QProcess::ProcessError error) {
00242     QString errorString;
00243     switch (error) {
00244     case QProcess::FailedToStart:
00245         errorString = tr("QProcess::FailedToStart");
00246         break;
00247     case QProcess::Crashed:
00248         errorString = tr("QProcess::Crashed");
00249         break;
00250     case QProcess::Timedout:
00251         errorString = tr("QProcess::Timedout");
00252         break;
00253     case QProcess::ReadError:
00254         errorString = tr("QProcess::ReadError");
00255         break;
00256     case QProcess::WriteError:
00257         errorString = tr("QProcess::WriteError");
00258         break;
00259     case QProcess::UnknownError:
00260         errorString = tr("QProcess::UnknownError");
00261         break;
00262     }
00263
00264     m_mainWindow->flashText(errorString, true);
00265     m_mainWindow->setUiElementsEnabled(true);
00266 }
00267
00268 void QtPass::processErrorExit(int exitCode, const QString &p_error) {
00269     if (!p_error.isEmpty()) {
00270         QString output;
00271         QString error = p_error.toHtmlEscaped();
00272         if (exitCode == 0) {
00273             // https://github.com/IJHack/qtpass/issues/111
00274             output = "<span style=\"color: darkgray;\">" + error + "</span><br />";
00275         } else {
00276             output = "<span style=\"color: red;\">" + error + "</span><br />";

```

```

00277     }
00278
00279     output.replace(Util::protocolRegex(), R"(<a href="\1">\1</a>");
00280     output.replace(QStringLiteral("\n"), "<br />");
00281
00282     m_mainWindow->flashText(output, false, true);
00283 }
00284
00285 m_mainWindow->setUiElementsEnabled(true);
00286 }
00287
00295 void QtPass::processFinished(const QString &p_output, const QString &p_errout) {
00296     showInTextBrowser(p_output);
00297     // Sometimes there is error output even with 0 exit code, which is
00298     // assumed in this function
00299     processErrorExit(0, p_errout);
00300
00301     m_mainWindow->setUiElementsEnabled(true);
00302 }
00303
00304 void QtPass::passStoreChanged(const QString &p_out, const QString &p_err) {
00305     processFinished(p_out, p_err);
00306     doGitPush();
00307 }
00308
00309 void QtPass::finishedInsert(const QString &p_output, const QString &p_errout) {
00310     processFinished(p_output, p_errout);
00311     doGitPush();
00312     m_mainWindow->on_treeView_clicked(m_mainWindow->getCurrentTreeViewIndex());
00313 }
00314
00315 void QtPass::onKeyGenerationComplete(const QString &p_output,
00316                                     const QString &p_errout) {
00317     if (nullptr != m_mainWindow->getKeygenDialog()) {
00318 #ifdef QT_DEBUG
00319         qDebug() << "Keygen Done";
00320 #endif
00321
00322         m_mainWindow->cleanKeygenDialog();
00323         // TODO(annejan) some sanity checking ?
00324     }
00325
00326     processFinished(p_output, p_errout);
00327 }
00328
00329 void QtPass::passShowHandlerFinished(QString output) {
00330     showInTextBrowser(std::move(output));
00331 }
00332
00333 void QtPass::showInTextBrowser(QString output, QString prefix,
00334                               QString postfix) {
00335     output = output.toHtmlEscaped();
00336
00337     output.replace(Util::protocolRegex(), R"(<a href="\1">\1</a>");
00338     output.replace(QStringLiteral("\n"), "<br />");
00339     output = prefix + output + postfix;
00340
00341     m_mainWindow->flashText(output, false, true);
00342 }
00343
00344 void QtPass::doGitPush() {
00345     if (QtPassSettings::isAutoPush())
00346         m_mainWindow->onPush();
00347 }
00348
00349 void QtPass::setClippedText(const QString &password, const QString &p_output) {
00350     if (QtPassSettings::getClipboardType() != Enums::CLIPBOARD_NEVER &&
00351         !p_output.isEmpty()) {
00352         clippedText = password;
00353         if (QtPassSettings::getClipboardType() == Enums::CLIPBOARD_ALWAYS)
00354             copyTextToClipboard(password);
00355     }
00356 }
00357 void QtPass::clearClippedText() { clippedText = ""; }
00358
00359 void QtPass::setClipboardTimer() {
00360     clearClipboardTimer.setInterval(1000 * QtPassSettings::getAutoclearSeconds());
00361 }
00362
00366 void QtPass::clearClipboard() {
00367     QClipboard *clipboard = QApplication::clipboard();
00368     bool cleared = false;
00369     if (this->clippedText == clipboard->text(QClipboard::Selection)) {
00370         clipboard->clear(QClipboard::Selection);
00371         clipboard->setText(QString(""), QClipboard::Selection);
00372         cleared = true;
00373     }

```

```

00374     if (this->clippedText == clipboard->text(QClipboard::Clipboard)) {
00375         clipboard->clear(QClipboard::Clipboard);
00376         cleared = true;
00377     }
00378     if (cleared) {
00379         m_mainWindow->showStatusMessage(tr("Clipboard cleared"));
00380     } else {
00381         m_mainWindow->showStatusMessage(tr("Clipboard not cleared"));
00382     }
00383
00384     clippedText.clear();
00385 }
00386
00391 void QtPass::copyTextToClipboard(const QString &text) {
00392     QClipboard *clip = QApplication::clipboard();
00393     if (!QtPassSettings::isUseSelection()) {
00394         clip->setText(text, QClipboard::Clipboard);
00395     } else {
00396         clip->setText(text, QClipboard::Selection);
00397     }
00398
00399     clippedText = text;
00400     m_mainWindow->showStatusMessage(tr("Copied to clipboard"));
00401     if (QtPassSettings::isUseAutoclear()) {
00402         clearClipboardTimer.start();
00403     }
00404 }
00405
00410 void QtPass::showTextAsQRCode(const QString &text) {
00411     QProcess qrencode;
00412     qrencode.start(QtPassSettings::getQrencodeExecutable("/usr/bin/qrencode"),
00413         QStringList() << "-o-"
00414             << "-tPNG");
00415     qrencode.write(text.toUtf8());
00416     qrencode.closeWriteChannel();
00417     qrencode.waitForFinished();
00418     QByteArray output(qrencode.readAllStandardOutput());
00419
00420     if (qrencode.exitStatus() || qrencode.exitCode()) {
00421         QString error(qrencode.readAllStandardError());
00422         m_mainWindow->showStatusMessage(error);
00423     } else {
00424         QPixmap image;
00425         image.loadFromData(output, "PNG");
00426
00427         QDialog *popup = new QDialog(0, Qt::Popup | Qt::FramelessWindowHint);
00428         QVBoxLayout *layout = new QVBoxLayout;
00429         QLabel *popupLabel = new QLabel();
00430         layout->addWidget(popupLabel);
00431         popupLabel->setPixmap(image);
00432         popupLabel->setScaledContents(true);
00433         popupLabel->show();
00434         popup->setLayout(layout);
00435         popup->move(QCursor::pos());
00436         popup->exec();
00437     }
00438 }

```

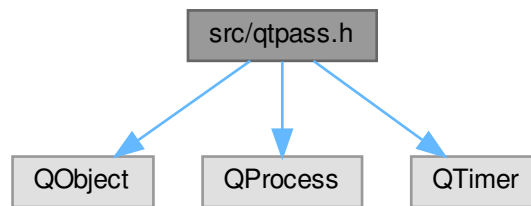
14.66 src/qlpass.h File Reference

```

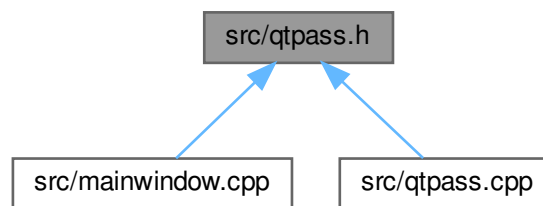
#include <QObject>
#include <QProcess>
#include <QTimer>

```


Include dependency graph for qtpass.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [QtPass](#)

14.67 qtpass.h

[Go to the documentation of this file.](#)

```

00001 #ifndef QTPASS_H
00002 #define QTPASS_H
00003
00004 #include <QObject>
00005 #include <QProcess>
00006 #include <QTimer>
00007
00008 class MainWindow;
00009 class Pass;
00010 class QtPass : public QObject {
00011     Q_OBJECT
00012
00013 public:
00014     QtPass(MainWindow *mainWindow);
00015     ~QtPass();
00016
00017     bool init();
00018     void setClippedText(const QString &, const QString &p_output = QString());
00019     void clearClippedText();
  
```

```

00020 void setClipboardTimer();
00021 bool isFreshStart() { return this->freshStart; }
00022 void setFreshStart(const bool &fs) { this->freshStart = fs; }
00023
00024 private:
00025     MainWindow *_mainWindow;
00026
00027     QProcess fusedav;
00028
00029     QTimer clearClipboardTimer;
00030     QString clippedText;
00031     bool freshStart;
00032
00033     void setMainWindow();
00034     void connectPassSignalHandlers(Pass *pass);
00035     void mountWebDav();
00036
00037 signals:
00038
00039 public slots:
00040     void clearClipboard();
00041     void copyTextToClipboard(const QString &text);
00042     void showTextAsQRCode(const QString &text);
00043
00044 private slots:
00045     void processError(QProcess::ProcessError);
00046     void processErrorExit(int exitCode, const QString &);
00047     void processFinished(const QString &, const QString &);
00048
00049     void passStoreChanged(const QString &, const QString &);
00050     void passShowHandlerFinished(QString output);
00051
00052     void doGitPush();
00053     void finishedInsert(const QString &, const QString &);
00054     void onKeyGenerationComplete(const QString &p_output,
00055                                   const QString &p_errout);
00056
00057     void showInTextBrowser(QString output, QString prefix = QString(),
00058                             QString postfix = QString());
00059 };
00060
00061 #endif // QTPASS_H

```

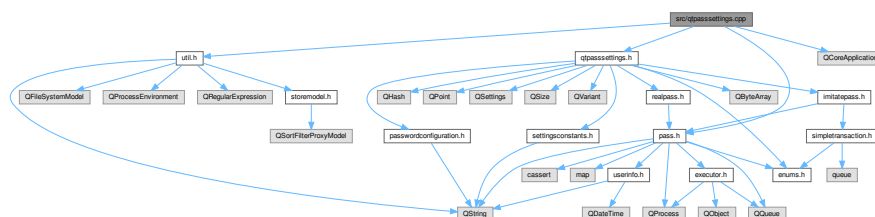
14.68 src/qlpasssettings.cpp File Reference

```

#include "qlpasssettings.h"
#include "pass.h"
#include "util.h"
#include <QCoreApplication>

```

Include dependency graph for qlpasssettings.cpp:



14.69 qlpasssettings.cpp

[Go to the documentation of this file.](#)

```

00001 #include "qlpasssettings.h"
00002 #include "pass.h"
00003
00004 #include "util.h"

```

```

00005
00006 #include <QCoreApplication>
00007
00008 bool QtPassSettings::initialized = false;
00009
00010 Pass *QtPassSettings::pass;
00011 // Go via pointer to avoid dynamic initialization,
00012 // due to "random" initialization order relative to other
00013 // globals, especially around QObject emtadata dynamic initialization
00014 // can lead to crashes depending on compiler, linker etc.
00015 QScopedPointer<RealPass> QtPassSettings::realPass;
00016 QScopedPointer<ImitatePass> QtPassSettings::imitatePass;
00017
00018 QtPassSettings *QtPassSettings::m_instance = nullptr;
00019 QtPassSettings *QtPassSettings::getInstance() {
00020     if (!QtPassSettings::initialized) {
00021         QString portable_ini = QCoreApplication::applicationDirPath() +
00022             QDir::separator() + "qtpass.ini";
00023         if (QFile(portable_ini).exists()) {
00024             m_instance = new QtPassSettings(portable_ini, QSettings::IniFormat);
00025         } else {
00026             m_instance = new QtPassSettings("IJHack", "QtPass");
00027         }
00028         initialized = true;
00029     }
00030 }
00031
00032 return m_instance;
00033 }
00034
00035 PasswordConfiguration QtPassSettings::getPasswordConfiguration() {
00036     PasswordConfiguration config;
00037
00038     config.length =
00039         getInstance()->value(SettingsConstants::passwordLength, 0).toInt();
00040     config.selected = static_cast<PasswordConfiguration::characterSet>(
00041         getInstance()
00042         ->value(SettingsConstants::passwordCharsselection, 0)
00043         .toInt());
00044     config.Characters[PasswordConfiguration::CUSTOM] =
00045         getInstance()
00046         ->value(SettingsConstants::passwordChars, QString())
00047         .toString();
00048
00049     return config;
00050 }
00051
00052 void QtPassSettings::setPasswordConfiguration(
00053     const PasswordConfiguration &config) {
00054     getInstance()->setValue(SettingsConstants::passwordLength, config.length);
00055     getInstance()->setValue(SettingsConstants::passwordCharsselection,
00056         config.selected);
00057     getInstance()->setValue(SettingsConstants::passwordChars,
00058         config.Characters[PasswordConfiguration::CUSTOM]);
00059 }
00060
00061 QHash<QString, QHash<QString, QString>> QtPassSettings::getProfiles() {
00062     getInstance()->beginGroup(SettingsConstants::profile);
00063     QHash<QString, QHash<QString, QString>> profiles;
00064
00065     // migration from version <= v1.3.2: profiles datastructure
00066     QStringList childKeys = getInstance()->childKeys();
00067     if (!childKeys.empty()) {
00068         foreach (QString key, childKeys) {
00069             QHash<QString, QString> profile;
00070             profile.insert("path", getInstance()->value(key).toString());
00071             profile.insert("signingKey", "");
00072             profiles.insert(key, profile);
00073         }
00074     }
00075     // /migration from version <= v1.3.2
00076
00077     QStringList childGroups = getInstance()->childGroups();
00078     foreach (QString group, childGroups) {
00079         QHash<QString, QString> profile;
00080         profile.insert("path", getInstance()->value(group + "/path").toString());
00081         profile.insert("signingKey",
00082             getInstance()->value(group + "/signingKey").toString());
00083         // profiles.insert(group, getInstance()->value(group).toString());
00084         profiles.insert(group, profile);
00085     }
00086
00087     getInstance()->endGroup();
00088
00089     return profiles;
00090 }
00091

```

```

00092 void QtPassSettings::setProfiles(
00093     const QHash<QString, QHash<QString, QString> &profiles) {
00094     getInstance()->remove(SettingsConstants::profile);
00095     getInstance()->beginGroup(SettingsConstants::profile);
00096
00097     QHash<QString, QHash<QString, QString>::const_iterator i = profiles.begin();
00098     for (; i != profiles.end(); ++i) {
00099         getInstance()->setValue(i.key() + "/path", i.value().value("path"));
00100         getInstance()->setValue(i.key() + "/signingKey",
00101             i.value().value("signingKey"));
00102     }
00103
00104     getInstance()->endGroup();
00105 }
00106
00107 Pass *QtPassSettings::getPass() {
00108     if (!pass) {
00109         if (isUsePass()) {
00110             QtPassSettings::pass = getRealPass();
00111         } else {
00112             QtPassSettings::pass = getImitatePass();
00113         }
00114         pass->init();
00115     }
00116     return pass;
00117 }
00118
00119 QString QtPassSettings::getVersion(const QString &defaultValue) {
00120     return getInstance()
00121         ->value(SettingsConstants::version, defaultValue)
00122         .toString();
00123 }
00124 void QtPassSettings::setVersion(const QString &version) {
00125     getInstance()->setValue(SettingsConstants::version, version);
00126 }
00127
00128 QByteArray QtPassSettings::getGeometry(const QByteArray &defaultValue) {
00129     return getInstance()
00130         ->value(SettingsConstants::geometry, defaultValue)
00131         .toByteArray();
00132 }
00133 void QtPassSettings::setGeometry(const QByteArray &geometry) {
00134     getInstance()->setValue(SettingsConstants::geometry, geometry);
00135 }
00136
00137 QByteArray QtPassSettings::getSavestate(const QByteArray &defaultValue) {
00138     return getInstance()
00139         ->value(SettingsConstants::savestate, defaultValue)
00140         .toByteArray();
00141 }
00142 void QtPassSettings::setSavestate(const QByteArray &saveState) {
00143     getInstance()->setValue(SettingsConstants::savestate, saveState);
00144 }
00145
00146 QPoint QtPassSettings::getPos(const QPoint &defaultValue) {
00147     return getInstance()->value(SettingsConstants::pos, defaultValue).toPoint();
00148 }
00149 void QtPassSettings::setPos(const QPoint &pos) {
00150     getInstance()->setValue(SettingsConstants::pos, pos);
00151 }
00152
00153 QSize QtPassSettings::getSize(const QSize &defaultValue) {
00154     return getInstance()->value(SettingsConstants::size, defaultValue).toSize();
00155 }
00156 void QtPassSettings::setSize(const QSize &size) {
00157     getInstance()->setValue(SettingsConstants::size, size);
00158 }
00159
00160 bool QtPassSettings::isMaximized(const bool &defaultValue) {
00161     return getInstance()
00162         ->value(SettingsConstants::maximized, defaultValue)
00163         .toBool();
00164 }
00165 void QtPassSettings::setMaximized(const bool &maximized) {
00166     getInstance()->setValue(SettingsConstants::maximized, maximized);
00167 }
00168
00169 bool QtPassSettings::isUsePass(const bool &defaultValue) {
00170     return getInstance()
00171         ->value(SettingsConstants::usePass, defaultValue)
00172         .toBool();
00173 }
00174 void QtPassSettings::setUsePass(const bool &usePass) {
00175     if (usePass) {
00176         QtPassSettings::pass = getRealPass();
00177     } else {
00178         QtPassSettings::pass = getImitatePass();

```

```

00179     }
00180     getInstance()->setValue(SettingsConstants::usePass, usePass);
00181 }
00182
00183 int QtPassSettings::getClipBoardTypeRaw(
00184     const Enums::clipBoardType &defaultvalue) {
00185     return getInstance()
00186         ->value(SettingsConstants::clipBoardType, static_cast<int>(defaultvalue))
00187         .toInt();
00188 }
00189
00190 Enums::clipBoardType
00191 QtPassSettings::getClipBoardType(const Enums::clipBoardType &defaultvalue) {
00192     return static_cast<Enums::clipBoardType>(getClipBoardTypeRaw(defaultvalue));
00193 }
00194 void QtPassSettings::setClipBoardType(const int &clipBoardType) {
00195     getInstance()->setValue(SettingsConstants::clipBoardType, clipBoardType);
00196 }
00197
00198 bool QtPassSettings::isUseSelection(const bool &defaultvalue) {
00199     return getInstance()
00200         ->value(SettingsConstants::useSelection, defaultvalue)
00201         .toBool();
00202 }
00203 void QtPassSettings::setUseSelection(const bool &useSelection) {
00204     getInstance()->setValue(SettingsConstants::useSelection, useSelection);
00205 }
00206
00207 bool QtPassSettings::isUseAutoclear(const bool &defaultvalue) {
00208     return getInstance()
00209         ->value(SettingsConstants::useAutoclear, defaultvalue)
00210         .toBool();
00211 }
00212 void QtPassSettings::setUseAutoclear(const bool &useAutoclear) {
00213     getInstance()->setValue(SettingsConstants::useAutoclear, useAutoclear);
00214 }
00215
00216 int QtPassSettings::getAutoclearSeconds(const int &defaultvalue) {
00217     return getInstance()
00218         ->value(SettingsConstants::autoclearSeconds, defaultvalue)
00219         .toInt();
00220 }
00221 void QtPassSettings::setAutoclearSeconds(const int &autoClearSeconds) {
00222     getInstance()->setValue(SettingsConstants::autoclearSeconds,
00223         autoClearSeconds);
00224 }
00225
00226 bool QtPassSettings::isUseAutoclearPanel(const bool &defaultvalue) {
00227     return getInstance()
00228         ->value(SettingsConstants::useAutoclearPanel, defaultvalue)
00229         .toBool();
00230 }
00231 void QtPassSettings::setUseAutoclearPanel(const bool &useAutoclearPanel) {
00232     getInstance()->setValue(SettingsConstants::useAutoclearPanel,
00233         useAutoclearPanel);
00234 }
00235
00236 int QtPassSettings::getAutoclearPanelSeconds(const int &defaultvalue) {
00237     return getInstance()
00238         ->value(SettingsConstants::autoclearPanelSeconds, defaultvalue)
00239         .toInt();
00240 }
00241 void QtPassSettings::setAutoclearPanelSeconds(
00242     const int &autoClearPanelSeconds) {
00243     getInstance()->setValue(SettingsConstants::autoclearPanelSeconds,
00244         autoClearPanelSeconds);
00245 }
00246
00247 bool QtPassSettings::isHidePassword(const bool &defaultvalue) {
00248     return getInstance()
00249         ->value(SettingsConstants::hidePassword, defaultvalue)
00250         .toBool();
00251 }
00252 void QtPassSettings::setHidePassword(const bool &hidePassword) {
00253     getInstance()->setValue(SettingsConstants::hidePassword, hidePassword);
00254 }
00255
00256 bool QtPassSettings::isHideContent(const bool &defaultvalue) {
00257     return getInstance()
00258         ->value(SettingsConstants::hideContent, defaultvalue)
00259         .toBool();
00260 }
00261 void QtPassSettings::setHideContent(const bool &hideContent) {
00262     getInstance()->setValue(SettingsConstants::hideContent, hideContent);
00263 }
00264
00265 bool QtPassSettings::isUseMonospace(const bool &defaultvalue) {

```

```

00266     return getInstance()
00267     ->value(SettingsConstants::useMonospace, defaultValue)
00268     .toBool();
00269 }
00270 void QtPassSettings::setUseMonospace(const bool &useMonospace) {
00271     getInstance()->setValue(SettingsConstants::useMonospace, useMonospace);
00272 }
00273
00274 bool QtPassSettings::isDisplayAsIs(const bool &defaultValue) {
00275     return getInstance()
00276     ->value(SettingsConstants::displayAsIs, defaultValue)
00277     .toBool();
00278 }
00279 void QtPassSettings::setDisplayAsIs(const bool &displayAsIs) {
00280     getInstance()->setValue(SettingsConstants::displayAsIs, displayAsIs);
00281 }
00282
00283 bool QtPassSettings::isNoLineWrapping(const bool &defaultValue) {
00284     return getInstance()
00285     ->value(SettingsConstants::noLineWrapping, defaultValue)
00286     .toBool();
00287 }
00288 void QtPassSettings::setNoLineWrapping(const bool &noLineWrapping) {
00289     getInstance()->setValue(SettingsConstants::noLineWrapping, noLineWrapping);
00290 }
00291
00292 bool QtPassSettings::isAddGPGId(const bool &defaultValue) {
00293     return getInstance()
00294     ->value(SettingsConstants::addGPGId, defaultValue)
00295     .toBool();
00296 }
00297 void QtPassSettings::setAddGPGId(const bool &addGPGId) {
00298     getInstance()->setValue(SettingsConstants::addGPGId, addGPGId);
00299 }
00300
00301 QString QtPassSettings::getPassStore(const QString &defaultValue) {
00302     QString returnValue = getInstance()
00303     ->value(SettingsConstants::passStore, defaultValue)
00304     .toString();
00305
00306     // Normalize the path string
00307     returnValue = QDir(returnValue).absolutePath();
00308
00309     // ensure directory exists if never used pass or misconfigured.
00310     // otherwise process->setWorkingDirectory(passStore); will fail on execution.
00311     if (!QDir(returnValue).exists()) {
00312         QDir().mkdir(returnValue);
00313     }
00314
00315     // ensure path ends in /
00316     if (!returnValue.endsWith("/") && !returnValue.endsWith(QDir::separator())) {
00317         returnValue += QDir::separator();
00318     }
00319
00320     return returnValue;
00321 }
00322 void QtPassSettings::setPassStore(const QString &passStore) {
00323     getInstance()->setValue(SettingsConstants::passStore, passStore);
00324 }
00325
00326 QString QtPassSettings::getPassSigningKey(const QString &defaultValue) {
00327     return getInstance()
00328     ->value(SettingsConstants::passSigningKey, defaultValue)
00329     .toString();
00330 }
00331 void QtPassSettings::setPassSigningKey(const QString &passSigningKey) {
00332     getInstance()->setValue(SettingsConstants::passSigningKey, passSigningKey);
00333 }
00334
00335 void QtPassSettings::initExecutables() {
00336     QString passExecutable =
00337         QtPassSettings::getPassExecutable(Util::findBinaryInPath("pass"));
00338     QtPassSettings::setPassExecutable(passExecutable);
00339
00340     QString gitExecutable =
00341         QtPassSettings::getGitExecutable(Util::findBinaryInPath("git"));
00342     QtPassSettings::setGitExecutable(gitExecutable);
00343
00344     QString gpgExecutable =
00345         QtPassSettings::getGpgExecutable(Util::findBinaryInPath("gpg2"));
00346     QtPassSettings::setGpgExecutable(gpgExecutable);
00347
00348     QString pwgenExecutable =
00349         QtPassSettings::getPwgenExecutable(Util::findBinaryInPath("pwgen"));
00350     QtPassSettings::setPwgenExecutable(pwgenExecutable);
00351 }
00352 QString QtPassSettings::getPassExecutable(const QString &defaultValue) {

```

```
00353     return getInstance()
00354     ->value(SettingsConstants::passExecutable, defaultValue)
00355     .toString();
00356 }
00357 void QtPassSettings::setPassExecutable(const QString &passExecutable) {
00358     getInstance()->setValue(SettingsConstants::passExecutable, passExecutable);
00359 }
00360
00361 QString QtPassSettings::getGitExecutable(const QString &defaultValue) {
00362     return getInstance()
00363     ->value(SettingsConstants::gitExecutable, defaultValue)
00364     .toString();
00365 }
00366 void QtPassSettings::setGitExecutable(const QString &gitExecutable) {
00367     getInstance()->setValue(SettingsConstants::gitExecutable, gitExecutable);
00368 }
00369
00370 QString QtPassSettings::getGpgExecutable(const QString &defaultValue) {
00371     return getInstance()
00372     ->value(SettingsConstants::gpgExecutable, defaultValue)
00373     .toString();
00374 }
00375 void QtPassSettings::setGpgExecutable(const QString &gpgExecutable) {
00376     getInstance()->setValue(SettingsConstants::gpgExecutable, gpgExecutable);
00377 }
00378
00379 QString QtPassSettings::getPwgenExecutable(const QString &defaultValue) {
00380     return getInstance()
00381     ->value(SettingsConstants::pwgenExecutable, defaultValue)
00382     .toString();
00383 }
00384 void QtPassSettings::setPwgenExecutable(const QString &pwgenExecutable) {
00385     getInstance()->setValue(SettingsConstants::pwgenExecutable, pwgenExecutable);
00386 }
00387
00388 QString QtPassSettings::getGpgHome(const QString &defaultValue) {
00389     return getInstance()
00390     ->value(SettingsConstants::gpgHome, defaultValue)
00391     .toString();
00392 }
00393
00394 bool QtPassSettings::isUseWebDav(const bool &defaultValue) {
00395     return getInstance()
00396     ->value(SettingsConstants::useWebDav, defaultValue)
00397     .toBool();
00398 }
00399 void QtPassSettings::setUseWebDav(const bool &useWebDav) {
00400     getInstance()->setValue(SettingsConstants::useWebDav, useWebDav);
00401 }
00402
00403 QString QtPassSettings::getWebDavUrl(const QString &defaultValue) {
00404     return getInstance()
00405     ->value(SettingsConstants::webDavUrl, defaultValue)
00406     .toString();
00407 }
00408 void QtPassSettings::setWebDavUrl(const QString &webDavUrl) {
00409     getInstance()->setValue(SettingsConstants::webDavUrl, webDavUrl);
00410 }
00411
00412 QString QtPassSettings::getWebDavUser(const QString &defaultValue) {
00413     return getInstance()
00414     ->value(SettingsConstants::webDavUser, defaultValue)
00415     .toString();
00416 }
00417 void QtPassSettings::setWebDavUser(const QString &webDavUser) {
00418     getInstance()->setValue(SettingsConstants::webDavUser, webDavUser);
00419 }
00420
00421 QString QtPassSettings::getWebDavPassword(const QString &defaultValue) {
00422     return getInstance()
00423     ->value(SettingsConstants::webDavPassword, defaultValue)
00424     .toString();
00425 }
00426 void QtPassSettings::setWebDavPassword(const QString &webDavPassword) {
00427     getInstance()->setValue(SettingsConstants::webDavPassword, webDavPassword);
00428 }
00429
00430 QString QtPassSettings::getProfile(const QString &defaultValue) {
00431     return getInstance()
00432     ->value(SettingsConstants::profile, defaultValue)
00433     .toString();
00434 }
00435 void QtPassSettings::setProfile(const QString &profile) {
00436     getInstance()->setValue(SettingsConstants::profile, profile);
00437 }
00438
00439 bool QtPassSettings::isUseGit(const bool &defaultValue) {
```

```
00440     return getInstance()->value(SettingsConstants::useGit, defaultValue).toBool();
00441 }
00442 void QtPassSettings::setUseGit(const bool &useGit) {
00443     getInstance()->setValue(SettingsConstants::useGit, useGit);
00444 }
00445
00446 bool QtPassSettings::isUseOtp(const bool &defaultValue) {
00447     return getInstance()->value(SettingsConstants::useOtp, defaultValue).toBool();
00448 }
00449
00450 void QtPassSettings::setUseOtp(const bool &useOtp) {
00451     getInstance()->setValue(SettingsConstants::useOtp, useOtp);
00452 }
00453
00454 bool QtPassSettings::isUseQrencode(const bool &defaultValue) {
00455     return getInstance()
00456         ->value(SettingsConstants::useQrencode, defaultValue)
00457         .toBool();
00458 }
00459
00460 void QtPassSettings::setUseQrencode(const bool &useQrencode) {
00461     getInstance()->setValue(SettingsConstants::useQrencode, useQrencode);
00462 }
00463
00464 QString QtPassSettings::getQrencodeExecutable(const QString &defaultValue) {
00465     return getInstance()
00466         ->value(SettingsConstants::qrencodeExecutable, defaultValue)
00467         .toString();
00468 }
00469 void QtPassSettings::setQrencodeExecutable(const QString &qrencodeExecutable) {
00470     getInstance()->setValue(SettingsConstants::qrencodeExecutable,
00471         qrencodeExecutable);
00472 }
00473
00474 bool QtPassSettings::isUsePwgen(const bool &defaultValue) {
00475     return getInstance()
00476         ->value(SettingsConstants::usePwgen, defaultValue)
00477         .toBool();
00478 }
00479 void QtPassSettings::setUsePwgen(const bool &usePwgen) {
00480     getInstance()->setValue(SettingsConstants::usePwgen, usePwgen);
00481 }
00482
00483 bool QtPassSettings::isAvoidCapitals(const bool &defaultValue) {
00484     return getInstance()
00485         ->value(SettingsConstants::avoidCapitals, defaultValue)
00486         .toBool();
00487 }
00488 void QtPassSettings::setAvoidCapitals(const bool &avoidCapitals) {
00489     getInstance()->setValue(SettingsConstants::avoidCapitals, avoidCapitals);
00490 }
00491
00492 bool QtPassSettings::isAvoidNumbers(const bool &defaultValue) {
00493     return getInstance()
00494         ->value(SettingsConstants::avoidNumbers, defaultValue)
00495         .toBool();
00496 }
00497 void QtPassSettings::setAvoidNumbers(const bool &avoidNumbers) {
00498     getInstance()->setValue(SettingsConstants::avoidNumbers, avoidNumbers);
00499 }
00500
00501 bool QtPassSettings::isLessRandom(const bool &defaultValue) {
00502     return getInstance()
00503         ->value(SettingsConstants::lessRandom, defaultValue)
00504         .toBool();
00505 }
00506 void QtPassSettings::setLessRandom(const bool &lessRandom) {
00507     getInstance()->setValue(SettingsConstants::lessRandom, lessRandom);
00508 }
00509
00510 bool QtPassSettings::isUseSymbols(const bool &defaultValue) {
00511     return getInstance()
00512         ->value(SettingsConstants::useSymbols, defaultValue)
00513         .toBool();
00514 }
00515 void QtPassSettings::setUseSymbols(const bool &useSymbols) {
00516     getInstance()->setValue(SettingsConstants::useSymbols, useSymbols);
00517 }
00518
00519 void QtPassSettings::setPasswordLength(const int &passwordLength) {
00520     getInstance()->setValue(SettingsConstants::passwordLength, passwordLength);
00521 }
00522 void QtPassSettings::setPasswordCharsselection(
00523     const int &passwordCharsselection) {
00524     getInstance()->setValue(SettingsConstants::passwordCharsselection,
00525         passwordCharsselection);
00526 }
```



```

00527 void QtPassSettings::setPasswordChars(const QString &passwordChars) {
00528     getInstance()->setValue(SettingsConstants::passwordChars, passwordChars);
00529 }
00530
00531 bool QtPassSettings::isUseTrayIcon(const bool &defaultValue) {
00532     return getInstance()
00533         ->value(SettingsConstants::useTrayIcon, defaultValue)
00534         .toBool();
00535 }
00536 void QtPassSettings::setUseTrayIcon(const bool &useTrayIcon) {
00537     getInstance()->setValue(SettingsConstants::useTrayIcon, useTrayIcon);
00538 }
00539
00540 bool QtPassSettings::isHideOnClose(const bool &defaultValue) {
00541     return getInstance()
00542         ->value(SettingsConstants::hideOnClose, defaultValue)
00543         .toBool();
00544 }
00545 void QtPassSettings::setHideOnClose(const bool &hideOnClose) {
00546     getInstance()->setValue(SettingsConstants::hideOnClose, hideOnClose);
00547 }
00548
00549 bool QtPassSettings::isStartMinimized(const bool &defaultValue) {
00550     return getInstance()
00551         ->value(SettingsConstants::startMinimized, defaultValue)
00552         .toBool();
00553 }
00554 void QtPassSettings::setStartMinimized(const bool &startMinimized) {
00555     getInstance()->setValue(SettingsConstants::startMinimized, startMinimized);
00556 }
00557
00558 bool QtPassSettings::isAlwaysOnTop(const bool &defaultValue) {
00559     return getInstance()
00560         ->value(SettingsConstants::alwaysOnTop, defaultValue)
00561         .toBool();
00562 }
00563 void QtPassSettings::setAlwaysOnTop(const bool &alwaysOnTop) {
00564     getInstance()->setValue(SettingsConstants::alwaysOnTop, alwaysOnTop);
00565 }
00566
00567 bool QtPassSettings::isAutoPull(const bool &defaultValue) {
00568     return getInstance()
00569         ->value(SettingsConstants::autoPull, defaultValue)
00570         .toBool();
00571 }
00572 void QtPassSettings::setAutoPull(const bool &autoPull) {
00573     getInstance()->setValue(SettingsConstants::autoPull, autoPull);
00574 }
00575
00576 bool QtPassSettings::isAutoPush(const bool &defaultValue) {
00577     return getInstance()
00578         ->value(SettingsConstants::autoPush, defaultValue)
00579         .toBool();
00580 }
00581 void QtPassSettings::setAutoPush(const bool &autoPush) {
00582     getInstance()->setValue(SettingsConstants::autoPush, autoPush);
00583 }
00584
00585 QString QtPassSettings::getPassTemplate(const QString &defaultValue) {
00586     return getInstance()
00587         ->value(SettingsConstants::passTemplate, defaultValue)
00588         .toString();
00589 }
00590 void QtPassSettings::setPassTemplate(const QString &passTemplate) {
00591     getInstance()->setValue(SettingsConstants::passTemplate, passTemplate);
00592 }
00593
00594 bool QtPassSettings::isUseTemplate(const bool &defaultValue) {
00595     return getInstance()
00596         ->value(SettingsConstants::useTemplate, defaultValue)
00597         .toBool();
00598 }
00599 void QtPassSettings::setUseTemplate(const bool &useTemplate) {
00600     getInstance()->setValue(SettingsConstants::useTemplate, useTemplate);
00601 }
00602
00603 bool QtPassSettings::isTemplateAllFields(const bool &defaultValue) {
00604     return getInstance()
00605         ->value(SettingsConstants::templateAllFields, defaultValue)
00606         .toBool();
00607 }
00608 void QtPassSettings::setTemplateAllFields(const bool &templateAllFields) {
00609     getInstance()->setValue(SettingsConstants::templateAllFields,
00610         templateAllFields);
00611 }
00612
00613 RealPass *QtPassSettings::getRealPass() {

```

```

00614     if (realPass.isNull())
00615         realPass.reset(new RealPass());
00616     return realPass.data();
00617 }
00618 ImitatePass *QtPassSettings::getImitatePass() {
00619     if (imitatePass.isNull())
00620         imitatePass.reset(new ImitatePass());
00621     return imitatePass.data();
00622 }

```

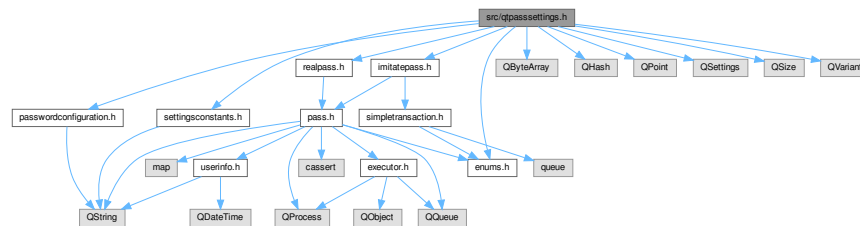
14.70 src/qtpasssettings.h File Reference

```

#include "enums.h"
#include "imitatepass.h"
#include "passwordconfiguration.h"
#include "realpass.h"
#include "settingsconstants.h"
#include <QByteArray>
#include <QHash>
#include <QPoint>
#include <QSettings>
#include <QSize>
#include <QVariant>

```

Include dependency graph for qtpasssettings.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [QtPassSettings](#)
Singleton that stores qtpass' settings, saves and loads config.

14.71 qtpasssettings.h

[Go to the documentation of this file.](#)

```

00001 #ifndef QTPASSSETTINGS_H
00002 #define QTPASSSETTINGS_H

```

```

00003
00004 #include "enums.h"
00005 #include "imitatepass.h"
00006 #include "passwordconfiguration.h"
00007 #include "realpass.h"
00008 #include "settingsconstants.h"
00009
00010 #include <QByteArray>
00011 #include <QHash>
00012 #include <QPoint>
00013 #include <QSettings>
00014 #include <QSize>
00015 #include <QVariant>
00016
00021 class QtPassSettings : public QSettings {
00022 private:
00023     explicit QtPassSettings();
00024
00025     QtPassSettings(const QString &organization, const QSettings::Format format)
00026         : QSettings(organization, format) {}
00027     QtPassSettings(const QString &organization, const QString &application)
00028         : QSettings(organization, application) {}
00029
00030     virtual ~QtPassSettings() {}
00031
00032     static bool initialized;
00033     static QtPassSettings *m_instance;
00034
00035     static Pass *pass;
00036     static QScopedPointer<RealPass> realPass;
00037     static QScopedPointer<ImitatePass> imitatePass;
00038 public:
00039     static QtPassSettings *getInstance();
00040
00041     static QString
00042     getVersion(const QString &defaultValue = QVariant().toString());
00043     static void setVersion(const QString &version);
00044
00045     static QByteArray
00046     getGeometry(const QByteArray &defaultValue = QVariant().toByteArray());
00047     static void setGeometry(const QByteArray &geometry);
00048
00049     static QByteArray
00050     getSaveState(const QByteArray &defaultValue = QVariant().toByteArray());
00051     static void setSaveState(const QByteArray &saveState);
00052
00053     static QPoint getPos(const QPoint &defaultValue = QVariant().toPoint());
00054     static void setPos(const QPoint &pos);
00055
00056     static QSize getSize(const QSize &defaultValue = QVariant().toSize());
00057     static void setSize(const QSize &size);
00058
00059     static bool isMaximized(const bool &defaultValue = QVariant().toBool());
00060     static void setMaximized(const bool &maximized);
00061
00062     static bool isUsePass(const bool &defaultValue = QVariant().toBool());
00063     static void setUsePass(const bool &usePass);
00064
00065     static int getClipboardTypeRaw(
00066         const Enums::clipboardType &defaultValue = Enums::CLIPBOARD_NEVER);
00067     static Enums::clipboardType getClipboardType(
00068         const Enums::clipboardType &defaultValue = Enums::CLIPBOARD_NEVER);
00069     static void setClipboardType(const int &clipboardType);
00070
00071     static bool isUseSelection(const bool &defaultValue = QVariant().toBool());
00072     static void setUseSelection(const bool &useSelection);
00073
00074     static bool isUseAutoclear(const bool &defaultValue = QVariant().toBool());
00075     static void setUseAutoclear(const bool &useAutoclear);
00076
00077     static int getAutoclearSeconds(const int &defaultValue = QVariant().toInt());
00078     static void setAutoclearSeconds(const int &autoClearSeconds);
00079
00080     static bool
00081     isUseAutoclearPanel(const bool &defaultValue = QVariant().toBool());
00082     static void setUseAutoclearPanel(const bool &useAutoclearPanel);
00083
00084     static int
00085     getAutoclearPanelSeconds(const int &defaultValue = QVariant().toInt());
00086     static void setAutoclearPanelSeconds(const int &autoClearPanelSeconds);
00087
00088     static bool isHidePassword(const bool &defaultValue = QVariant().toBool());
00089     static void setHidePassword(const bool &hidePassword);
00090
00091     static bool isHideContent(const bool &defaultValue = QVariant().toBool());
00092     static void setHideContent(const bool &hideContent);
00093

```

```
00094
00095     static bool isUseMonospace(const bool &defaultValue = QVariant().toBool());
00096     static void setUseMonospace(const bool &useMonospace);
00097
00098     static bool isDisplayAsIs(const bool &defaultValue = QVariant().toBool());
00099     static void setDisplayAsIs(const bool &displayAsIs);
00100
00101     static bool isNoLineWrapping(const bool &defaultValue = QVariant().toBool());
00102     static void setNoLineWrapping(const bool &noLineWrapping);
00103
00104     static bool isAddGPGId(const bool &defaultValue = QVariant().toBool());
00105     static void setAddGPGId(const bool &addGPGId);
00106
00107     static QString
00108     getPassStore(const QString &defaultValue = QVariant().toString());
00109     static void setPassStore(const QString &passStore);
00110
00111     static QString
00112     getPassSigningKey(const QString &defaultValue = QVariant().toString());
00113     static void setPassSigningKey(const QString &passSigningKey);
00114
00115     static void initExecutables();
00116     static QString
00117     getPassExecutable(const QString &defaultValue = QVariant().toString());
00118     static void setPassExecutable(const QString &passExecutable);
00119
00120     static QString
00121     getGitExecutable(const QString &defaultValue = QVariant().toString());
00122     static void setGitExecutable(const QString &gitExecutable);
00123
00124     static QString
00125     getGpgExecutable(const QString &defaultValue = QVariant().toString());
00126     static void setGpgExecutable(const QString &gpgExecutable);
00127
00128     static QString
00129     getPwgenExecutable(const QString &defaultValue = QVariant().toString());
00130     static void setPwgenExecutable(const QString &pwgenExecutable);
00131
00132     static QString
00133     getGpgHome(const QString &defaultValue = QVariant().toString());
00134
00135     static bool isUseWebDav(const bool &defaultValue = QVariant().toBool());
00136     static void setUseWebDav(const bool &useWebDav);
00137
00138     static QString
00139     getWebDavUrl(const QString &defaultValue = QVariant().toString());
00140     static void setWebDavUrl(const QString &webDavUrl);
00141
00142     static QString
00143     getWebDavUser(const QString &defaultValue = QVariant().toString());
00144     static void setWebDavUser(const QString &webDavUser);
00145
00146     static QString
00147     getWebDavPassword(const QString &defaultValue = QVariant().toString());
00148     static void setWebDavPassword(const QString &webDavPassword);
00149
00150     static QString
00151     getProfile(const QString &defaultValue = QVariant().toString());
00152     static void setProfile(const QString &profile);
00153
00154     static bool isUseGit(const bool &defaultValue = QVariant().toBool());
00155     static void setUseGit(const bool &useGit);
00156
00157     static bool isUseOtp(const bool &defaultValue = QVariant().toBool());
00158     static void setUseOtp(const bool &useOtp);
00159
00160     static bool isUseQrencode(const bool &defaultValue = QVariant().toBool());
00161     static void setUseQrencode(const bool &useQrencode);
00162
00163     static QString
00164     getQrencodeExecutable(const QString &defaultValue = QVariant().toString());
00165     static void setQrencodeExecutable(const QString &qrencodeExecutable);
00166
00167     static bool isUsePwgen(const bool &defaultValue = QVariant().toBool());
00168     static void setUsePwgen(const bool &usePwgen);
00169
00170     static bool isAvoidCapitals(const bool &defaultValue = QVariant().toBool());
00171     static void setAvoidCapitals(const bool &avoidCapitals);
00172
00173     static bool isAvoidNumbers(const bool &defaultValue = QVariant().toBool());
00174     static void setAvoidNumbers(const bool &avoidNumbers);
00175
00176     static bool isLessRandom(const bool &defaultValue = QVariant().toBool());
00177     static void setLessRandom(const bool &lessRandom);
00178
00179     static bool isUseSymbols(const bool &defaultValue = QVariant().toBool());
00180     static void setUseSymbols(const bool &useSymbols);
```

14.72 src/realpass.cpp File Reference

Include dependency graph for realpass.cpp:



Generated by Doxygen

```

00001 #include "realpass.h"
00002 #include "qtpasssettings.h"
00003 #include "util.h"
00004
00005 #include <QDir>
00006 #include <QFileInfo>
00007 #include <QRegularExpression>
00008 #include <utility>
00009
00010 using namespace Enums;
00011
00012 RealPass::RealPass() = default;
00013
00017 void RealPass::GitInit() { executePass(GIT_INIT, {"git", "init"}); }
00018
00023 void RealPass::GitPull_b() {
00024     exec.executeBlocking(QtpassSettings::getPassExecutable(), {"git", "pull"});
00025 }
00026
00030 void RealPass::GitPull() { executePass(GIT_PULL, {"git", "pull"}); }
00031
00035 void RealPass::GitPush() { executePass(GIT_PUSH, {"git", "push"}); }
00036
00046 void RealPass::Show(QString file) {
00047     executePass(PASS_SHOW, {"show", file}, "", true);
00048 }
00049
00054 void RealPass::OtpGenerate(QString file) {
00055     executePass(PASS_OTP_GENERATE, {"otp", file}, "", true);
00056 }
00057
00061 void RealPass::Insert(QString file, QString newValue, bool overwrite) {
00062     QStringList args = {"insert", "-m"};
00063     if (overwrite)
00064         args.append("-f");
00065     args.append(file);
00066     executePass(PASS_INSERT, args, newValue);
00067 }
00068
00072 void RealPass::Remove(QString file, bool isDir) {
00073     executePass(PASS_REMOVE, {"rm", (isDir ? "-rf" : "-f"), file});
00074 }
00075
00082 void RealPass::Init(QString path, const QList<UserInfo> &users) {
00083     // remove the passStore directory otherwise,
00084     // pass would create a passStore/passStore/dir
00085     // but you want passStore/dir
00086     QString dirWithoutPassdir =
00087         path.remove(0, QtpassSettings::getPassStore().size());
00088     QStringList args = {"init", "--path=" + dirWithoutPassdir};
00089     foreach (const UserInfo &user, users) {
00090         if (user.enabled)
00091             args.append(user.key_id);
00092     }
00093     executePass(PASS_INIT, args);
00094 }
00095
00102 void RealPass::Move(const QString src, const QString dest, const bool force) {
00103     QFileInfo srcFileInfo = QFileInfo(src);
00104     QFileInfo destFileInfo = QFileInfo(dest);
00105
00106     // force mode?
00107     // pass uses always the force mode, when call from eg. QT. so we have to check
00108     // if this are to files
00109     // and the user didnt want to move force
00110     if (!force && srcFileInfo.isFile() && destFileInfo.isFile()) {
00111         return;
00112     }
00113
00114     QString passSrc = QDir(QtpassSettings::getPassStore())
00115         .relativeFilePath(QDir(src).absolutePath());
00116     QString passDest = QDir(QtpassSettings::getPassStore())
00117         .relativeFilePath(QDir(dest).absolutePath());
00118
00119     // remove the .gpg because pass will not work
00120     if (srcFileInfo.isFile() && srcFileInfo.suffix() == "gpg") {
00121         passSrc.replace(Util::endsWithGpg(), "");
00122     }
00123     if (destFileInfo.isFile() && destFileInfo.suffix() == "gpg") {
00124         passDest.replace(Util::endsWithGpg(), "");
00125     }
00126
00127     QStringList args;
00128     args << "mv";
00129     if (force) {
00130         args << "-f";
00131     }

```

```

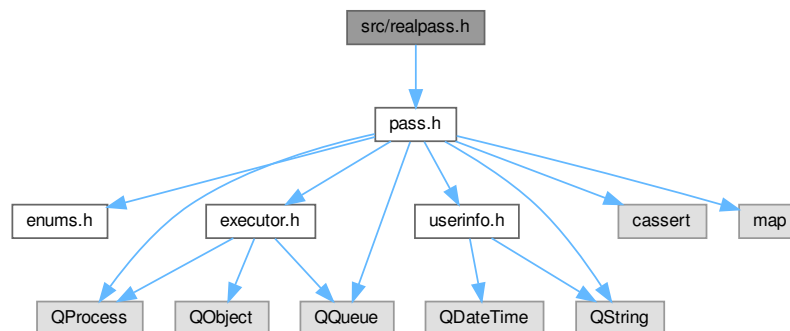
00132     args « passSrc;
00133     args « passDest;
00134     executePass(PASS_MOVE, args);
00135 }
00136
00143 void RealPass::Copy(const QString src, const QString dest, const bool force) {
00144     QFileInfo srcFileInfo = QFileInfo(src);
00145     QFileInfo destFileInfo = QFileInfo(dest);
00146     // force mode?
00147     // pass uses always the force mode, when call from eg. QT. so we have to check
00148     // if this are to files
00149     // and the user didnt want to move force
00150     if (!force && srcFileInfo.isFile() && destFileInfo.isFile()) {
00151         return;
00152     }
00153
00154     QString passSrc = QDir(QtPassSettings::getPassStore())
00155         .relativeFilePath(QDir(src).absolutePath());
00156     QString passDest = QDir(QtPassSettings::getPassStore())
00157         .relativeFilePath(QDir(dest).absolutePath());
00158
00159     // remove the .gpg because pass will not work
00160     if (srcFileInfo.isFile() && srcFileInfo.suffix() == "gpg") {
00161         passSrc.replace(Util::endsWithGpg(), "");
00162     }
00163     if (destFileInfo.isFile() && destFileInfo.suffix() == "gpg") {
00164         passDest.replace(Util::endsWithGpg(), "");
00165     }
00166     QStringList args;
00167     args « "cp";
00168     if (force) {
00169         args « "-f";
00170     }
00171     args « passSrc;
00172     args « passDest;
00173     executePass(PASS_COPY, args);
00174 }
00175
00180 void RealPass::executePass(PROCESS id, const QStringList &args, QString input,
00181     bool readStdout, bool readStderr) {
00182     executeWrapper(id, QtPassSettings::getPassExecutable(), args,
00183         std::move(input), readStdout, readStderr);
00184 }

```

14.74 src/realpass.h File Reference

```
#include "pass.h"
```

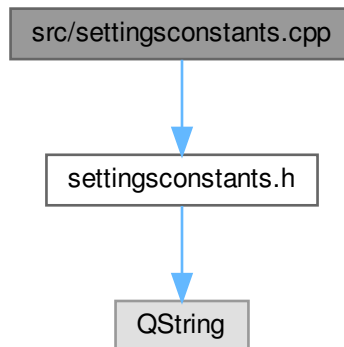
Include dependency graph for realpass.h:



14.76 src/settingsconstants.cpp File Reference

```
#include "settingsconstants.h"
```

Include dependency graph for settingsconstants.cpp:



14.77 settingsconstants.cpp

[Go to the documentation of this file.](#)

```

00001 #include "settingsconstants.h"
00002
00003 SettingsConstants::SettingsConstants() = default;
00004
00005 const QString SettingsConstants::version = "version";
00006 const QString SettingsConstants::groupMainwindow = "mainwindow";
00007 const QString SettingsConstants::geometry =
00008     SettingsConstants::groupMainwindow + "/geometry";
00009 const QString SettingsConstants::savestate =
00010     SettingsConstants::groupMainwindow + "/savestate";
00011 const QString SettingsConstants::pos =
00012     SettingsConstants::groupMainwindow + "/pos";
00013 const QString SettingsConstants::size =
00014     SettingsConstants::groupMainwindow + "/size";
00015 const QString SettingsConstants::splitterLeft =
00016     SettingsConstants::groupMainwindow + "/splitterLeft";
00017 const QString SettingsConstants::splitterRight =
00018     SettingsConstants::groupMainwindow + "/splitterRight";
00019 const QString SettingsConstants::maximized =
00020     SettingsConstants::groupMainwindow + "/maximized";
00021 const QString SettingsConstants::usePass = "usePass";
00022 const QString SettingsConstants::useSelection = "useSelection";
00023 const QString SettingsConstants::useAutoclear = "useAutoclear";
00024 const QString SettingsConstants::autoclearSeconds = "autoclearSeconds";
00025 const QString SettingsConstants::useAutoclearPanel = "useAutoclearPanel";
00026 const QString SettingsConstants::autoclearPanelSeconds =
00027     "autoclearPanelSeconds";
00028 const QString SettingsConstants::hidePassword = "hidePassword";
00029 const QString SettingsConstants::hideContent = "hideContent";
00030 const QString SettingsConstants::useMonospace = "useMonospace";
00031 const QString SettingsConstants::displayAsIs = "displayAsIs";
00032 const QString SettingsConstants::noLineWrapping = "noLineWrapping";
00033 const QString SettingsConstants::addGPGId = "addGPGId";
00034 const QString SettingsConstants::passStore = "passStore";
00035 const QString SettingsConstants::passSigningKey = "passSigningKey";
00036 const QString SettingsConstants::passExecutable = "passExecutable";
00037 const QString SettingsConstants::gitExecutable = "gitExecutable";
00038 const QString SettingsConstants::gpgExecutable = "gpgExecutable";
00039 const QString SettingsConstants::pwgenExecutable = "pwgenExecutable";
00040 const QString SettingsConstants::gpgHome = "gpgHome";
00041 const QString SettingsConstants::useWebDav = "useWebDav";
  
```

```

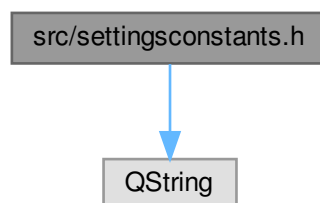
00042 const QString SettingsConstants::webDavUrl = "webDavUrl";
00043 const QString SettingsConstants::webDavUser = "webDavUser";
00044 const QString SettingsConstants::webDavPassword = "webDavPassword";
00045 const QString SettingsConstants::profile = "profile";
00046 const QString SettingsConstants::groupProfiles = "profiles";
00047 const QString SettingsConstants::useGit = "useGit";
00048 const QString SettingsConstants::useOtp = "useOtp";
00049 const QString SettingsConstants::useQrcode = "useQrcode";
00050 const QString SettingsConstants::qrcodeExecutable = "qrcodeExecutable";
00051 const QString SettingsConstants::useClipboard = "useClipboard";
00052 const QString SettingsConstants::usePwgen = "usePwgen";
00053 const QString SettingsConstants::avoidCapitals = "avoidCapitals";
00054 const QString SettingsConstants::avoidNumbers = "avoidNumbers";
00055 const QString SettingsConstants::lessRandom = "lessRandom";
00056 const QString SettingsConstants::useSymbols = "useSymbols";
00057 const QString SettingsConstants::passwordLength = "passwordLength";
00058 const QString SettingsConstants::passwordCharsselection =
00059     "passwordCharsselection";
00060 const QString SettingsConstants::passwordChars = "passwordChars";
00061 const QString SettingsConstants::useTrayIcon = "useTrayIcon";
00062 const QString SettingsConstants::hideOnClose = "hideOnClose";
00063 const QString SettingsConstants::startMinimized = "startMinimized";
00064 const QString SettingsConstants::alwaysOnTop = "alwaysOnTop";
00065 const QString SettingsConstants::autoPull = "autoPull";
00066 const QString SettingsConstants::autoPush = "autoPush";
00067 const QString SettingsConstants::passTemplate = "passTemplate";
00068 const QString SettingsConstants::useTemplate = "useTemplate";
00069 const QString SettingsConstants::templateAllFields = "templateAllFields";
00070 const QString SettingsConstants::clipBoardType = "clipBoardType";

```

14.78 src/settingsconstants.h File Reference

#include <QString>

Include dependency graph for settingsconstants.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [SettingsConstants](#)

Table for the naming of configuration items.

14.79 settingsconstants.h

[Go to the documentation of this file.](#)

```

00001 #ifndef CONSTANTS_H
00002 #define CONSTANTS_H
00003
00004 #include <QString>
00005
00010 class SettingsConstants {
00011 public:
00012     const static QString version;
00013     const static QString groupMainwindow;
00014     const static QString geometry;
00015     const static QString savestate;
00016     const static QString pos;
00017     const static QString size;
00018     const static QString splitterLeft;
00019     const static QString splitterRight;
00020     const static QString maximized;
00021     const static QString usePass;
00022     const static QString useAutoclear;
00023     const static QString useSelection;
00024     const static QString autoclearSeconds;
00025     const static QString useAutoclearPanel;
00026     const static QString autoclearPanelSeconds;
00027     const static QString hidePassword;
00028     const static QString hideContent;
00029     const static QString useMonospace;
00030     const static QString displayAsIs;
00031     const static QString noLineWrapping;
00032     const static QString addGPGId;
00033     const static QString passStore;
00034     const static QString passSigningKey;
00035     const static QString passExecutable;
00036     const static QString gitExecutable;
00037     const static QString gpgExecutable;
00038     const static QString pwgenExecutable;
00039     const static QString gpgHome;
00040     const static QString useWebDav;
00041     const static QString webDavUrl;
00042     const static QString webDavUser;
00043     const static QString webDavPassword;
00044     const static QString profile;
00045     const static QString groupProfiles;
00046     const static QString useGit;
00047     const static QString useOtp;
00048     const static QString useQrencode;
00049     const static QString qrencodeExecutable;
00050     const static QString useClipboard;
00051     const static QString usePwgen;
00052     const static QString avoidCapitals;
00053     const static QString avoidNumbers;
00054     const static QString lessRandom;
00055     const static QString useSymbols;
00056     const static QString passwordLength;
00057     const static QString passwordCharsselection;
00058     const static QString passwordChars;
00059     const static QString useTrayIcon;
00060     const static QString hideOnClose;
00061     const static QString startMinimized;
00062     const static QString alwaysOnTop;
00063     const static QString autoPull;
00064     const static QString autoPush;
00065     const static QString passTemplate;
00066     const static QString useTemplate;
00067     const static QString templateAllFields;
00068     const static QString clipBoardType;
00069
00070 private:
00071     explicit SettingsConstants();
00072 };
00073
00074 #endif // CONSTANTS_H

```

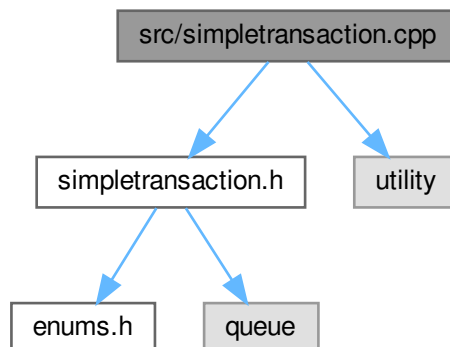
14.80 src/simpletransaction.cpp File Reference

```

#include "simpletransaction.h"
#include <utility>

```

Include dependency graph for simpletransaction.cpp:



14.81 simpletransaction.cpp

[Go to the documentation of this file.](#)

```

00001 #include "simpletransaction.h"
00002 #include <utility>
00003
00004 #ifdef QT_DEBUG
00005 #include "debughelper.h"
00006 #endif
00007
00008 using std::pair;
00009 using namespace Enums;
00010
00014 void simpleTransaction::transactionStart() {
00015     #ifdef QT_DEBUG
00016         dbg() << "START" << transactionDepth;
00017     #endif
00018     transactionDepth++;
00019 }
00020
00025 void simpleTransaction::transactionAdd(PROCESS id) {
00026     #ifdef QT_DEBUG
00027         dbg() << "ADD" << transactionDepth << id;
00028     #endif
00029     if (transactionDepth > 0) {
00030         lastInTransaction = id;
00031     } else {
00032         transactionQueue.push(pair<PROCESS, PROCESS>(id, id));
00033     }
00034 }
00035
00040 void simpleTransaction::transactionEnd(PROCESS pid) {
00041     #ifdef QT_DEBUG
00042         dbg() << "END" << transactionDepth;
00043     #endif
00044     if (transactionDepth > 0) {
00045         transactionDepth--;
00046         if (transactionDepth == 0 && lastInTransaction != INVALID) {
00047             transactionQueue.push(pair<PROCESS, PROCESS>(lastInTransaction, pid));
00048             lastInTransaction = INVALID;
00049         }
00050     }
00051 }
00052
00058 PROCESS simpleTransaction::transactionIsOver(PROCESS id) {
00059     #ifdef QT_DEBUG
00060         dbg() << "OVER" << transactionDepth << id;
00061     #endif
00062     if (!transactionQueue.empty() && id == transactionQueue.front().first) {
00063         PROCESS ret = transactionQueue.front().second;

```

```

00064     transactionQueue.pop();
00065     return ret;
00066 }
00067 return INVALID;
00068 }

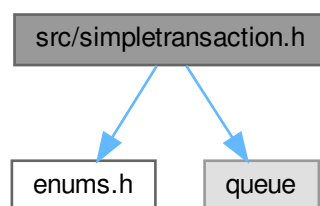
```

14.82 src/simpletransaction.h File Reference

```
#include "enums.h"
```

```
#include <queue>
```

Include dependency graph for simpletransaction.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [simpleTransaction](#)

14.83 simpletransaction.h

[Go to the documentation of this file.](#)

```

00001 #ifndef SIMPLETRANSACTION_H
00002 #define SIMPLETRANSACTION_H
00003
00004 #include "enums.h"
00005 #include <queue>
00006
00007 class simpleTransaction {
00008     int transactionDepth;
00009     Enums::PROCESS lastInTransaction;
00010     std::queue<std::pair<Enums::PROCESS, Enums::PROCESS>> transactionQueue;
00011
00012 public:
00013     simpleTransaction()

```

```

00014         : transactionDepth(0), lastInTransaction(Enums::INVALID) {}
00020     void transactionStart();
00030     void transactionAdd(Enums::PROCESS);
00036     void transactionEnd(Enums::PROCESS);
00044     Enums::PROCESS transactionIsOver(Enums::PROCESS);
00045 };
00046
00047 #endif // SIMPLETRANSACTION_H

```

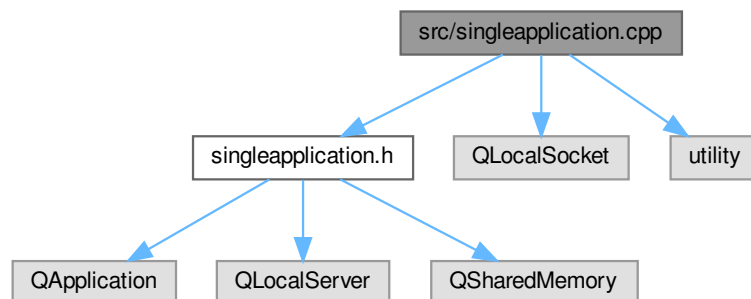
14.84 src/singleapplication.cpp File Reference

```

#include "singleapplication.h"
#include <QLocalSocket>
#include <utility>

```

Include dependency graph for singleapplication.cpp:



14.85 singleapplication.cpp

[Go to the documentation of this file.](#)

```

00001 #include "singleapplication.h"
00002 #include <QLocalSocket>
00003 #include <utility>
00004 #ifdef QT_DEBUG
00005 #include "debughelper.h"
00006 #endif
00007
00015 SingleApplication::SingleApplication(int &argc, char *argv[], QString uniqueKey)
00016     : QApplication(argc, argv), _uniqueKey(std::move(uniqueKey)) {
00017     sharedMemory.setKey(_uniqueKey);
00018     if (sharedMemory.attach()) {
00019         _isRunning = true;
00020     } else {
00021         _isRunning = false;
00022         // create shared memory.
00023         if (!sharedMemory.create(1)) {
00024             #ifdef QT_DEBUG
00025                 dbg() << "Unable to create single instance.";
00026             #endif
00027             return;
00028         }
00029         // create local server and listen to incoming messages from other
00030         // instances.
00031         localServer.reset(new QLocalServer(this));
00032         connect(localServer.data(), &QLocalServer::newConnection, this,
00033             &SingleApplication::receiveMessage);
00034         localServer->listen(_uniqueKey);
00035     }
00036 }

```

```

00037
00038 // public slots.
00039
00044 void SingleApplication::receiveMessage() {
00045     QLocalSocket *localSocket = localServer->nextPendingConnection();
00046     if (!localSocket->waitForReadyRead(timeout)) {
00047         #ifdef QT_DEBUG
00048             dbg() << localSocket->errorString().toLatin1();
00049         #endif
00050         return;
00051     }
00052     QByteArray byteArray = localSocket->readAll();
00053     QString message = QString::fromUtf8(byteArray.constData());
00054     emit messageAvailable(message);
00055     localSocket->disconnectFromServer();
00056 }
00057
00058 // public functions.
00064 bool SingleApplication::isRunning() { return _isRunning; }
00065
00072 bool SingleApplication::sendMessage(const QString &message) {
00073     if (!_isRunning)
00074         return false;
00075     QLocalSocket localSocket(this);
00076     localSocket.connectToServer(_uniqueKey, QIODevice::WriteOnly);
00077     if (!localSocket.waitForConnected(timeout)) {
00078         #ifdef QT_DEBUG
00079             dbg() << localSocket.errorString().toLatin1();
00080         #endif
00081         return false;
00082     }
00083     localSocket.write(message.toUtf8());
00084     if (!localSocket.waitForBytesWritten(timeout)) {
00085         #ifdef QT_DEBUG
00086             dbg() << localSocket.errorString().toLatin1();
00087         #endif
00088         return false;
00089     }
00090     localSocket.disconnectFromServer();
00091     return true;
00092 }

```

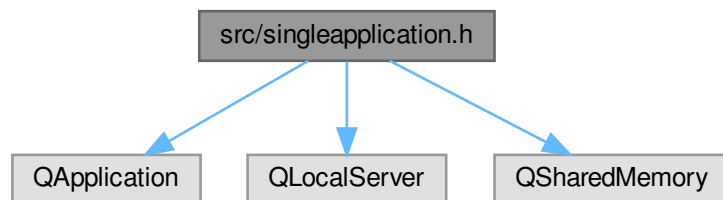
14.86 src/singleapplication.h File Reference

```

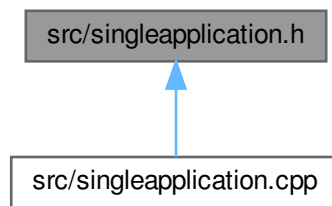
#include <QApplication>
#include <QLocalServer>
#include <QSharedMemory>

```

Include dependency graph for singleapplication.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [SingleApplication](#)

The [SingleApplication](#) class is used for commandline intergration.

14.87 singleapplication.h

[Go to the documentation of this file.](#)

```

00001 #ifndef SINGLEAPPLICATION_H_
00002 #define SINGLEAPPLICATION_H_
00003
00004 #include <QApplication>
00005 #include <QLocalServer>
00006 #include <QSharedMemory>
00007
00014 class SingleApplication : public QApplication {
00015     Q_OBJECT
00016 public:
00017     SingleApplication(int &argc, char *argv[], QString uniqueKey);
00018     bool isRunning();
00019     bool sendMessage(const QString &message);
00020
00021 public slots:
00022     void receiveMessage();
00023
00024 signals:
00029     void messageAvailable(QString message);
00030
00031 private:
00032     bool _isRunning;
00033     QString _uniqueKey;
00034     QSharedMemory sharedMemory;
00035     QScopedPointer<QLocalServer> localServer;
00036
00037     static const int timeout = 1000;
00038 };
00039
00040 #endif // SINGLEAPPLICATION_H_
  
```

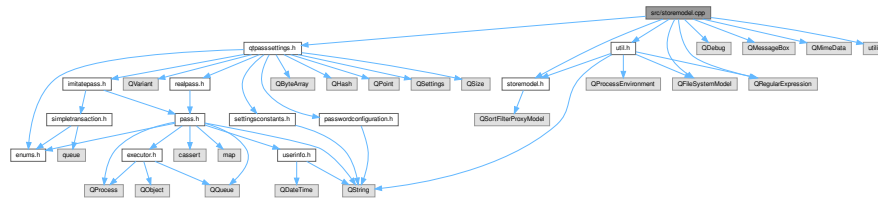
14.88 src/storemodel.cpp File Reference

```

#include "storemodel.h"
#include "qtpasssettings.h"
#include "util.h"
  
```



```
#include <QDebug>
#include <QFileSystemModel>
#include <QMessageBox>
#include <QMimeData>
#include <QRegularExpression>
#include <utility>
Include dependency graph for storemodel.cpp:
```



Functions

- QDataStream & **operator<<** (QDataStream &out, const **dragAndDropInfoPasswordStore** &dragAndDropInfoPasswordStore)
- QDataStream & **operator>>** (QDataStream &in, **dragAndDropInfoPasswordStore** &dragAndDropInfoPasswordStore)

14.88.1 Function Documentation

14.88.1.1 operator<<()

```
QDataStream & operator<< (
    QDataStream & out,
    const dragAndDropInfoPasswordStore & dragAndDropInfoPasswordStore )
```

Definition at line 12 of file storemodel.cpp.

14.88.1.2 operator>>()

```
QDataStream & operator>> (
    QDataStream & in,
    dragAndDropInfoPasswordStore & dragAndDropInfoPasswordStore )
```

Definition at line 22 of file storemodel.cpp.

14.89 storemodel.cpp

[Go to the documentation of this file.](#)

```

00001 #include "storemodel.h"
00002 #include "qtpasssettings.h"
00003
00004 #include "util.h"
00005 #include <QDebug>
00006 #include <QFileSystemModel>
00007 #include <QMessageBox>
00008 #include <QMimeData>
00009 #include <QRegularExpression>
00010 #include <utility>
00011
00012 QDataStream &
00013 operator<<(QDataStream &out,
00014           const dragAndDropInfoPasswordStore &dragAndDropInfoPasswordStore) {
00015     out << dragAndDropInfoPasswordStore.isDir
00016         << dragAndDropInfoPasswordStore.isFile
00017         << dragAndDropInfoPasswordStore.path;
00018     return out;
00019 }
00020
00021 QDataStream &
00022 operator>>(QDataStream &in,
00023           dragAndDropInfoPasswordStore &dragAndDropInfoPasswordStore) {
00024     in >> dragAndDropInfoPasswordStore.isDir >>
00025         dragAndDropInfoPasswordStore.isFile >> dragAndDropInfoPasswordStore.path;
00026     return in;
00027 }
00028
00034 StoreModel::StoreModel() { fs = nullptr; }
00035
00043 bool StoreModel::filterAcceptsRow(int sourceRow,
00044                                   const QModelIndex &sourceParent) const {
00045     QModelIndex index = sourceModel()->index(sourceRow, 0, sourceParent);
00046     return ShowThis(index);
00047 }
00048
00055 bool StoreModel::ShowThis(const QModelIndex index) const {
00056     bool retVal = false;
00057     if (fs == nullptr)
00058         return retVal;
00059     // Gives you the info for number of childs with a parent
00060     if (sourceModel()->rowCount(index) > 0) {
00061         for (int nChild = 0; nChild < sourceModel()->rowCount(index); ++nChild) {
00062             QModelIndex childIndex = sourceModel()->index(nChild, 0, index);
00063             if (!childIndex.isValid())
00064                 break;
00065             retVal = ShowThis(childIndex);
00066             if (retVal)
00067                 break;
00068         }
00069     } else {
00070         QModelIndex useIndex = sourceModel()->index(index.row(), 0, index.parent());
00071         QString path = fs->filePath(useIndex);
00072         path = QDir(store).relativeFilePath(path);
00073         path.replace(Util::endsWithGpg(), "");
00074         retVal = path.contains(filterRegularExpression());
00075     }
00076     return retVal;
00077 }
00078
00084 void StoreModel::setModelAndStore(QFileSystemModel *sourceModel,
00085                                   QString passStore) {
00086     setSourceModel(sourceModel);
00087     fs = sourceModel;
00088     store = std::move(passStore);
00089 }
00090
00097 QVariant StoreModel::data(const QModelIndex &index, int role) const {
00098     if (!index.isValid())
00099         return QVariant();
00100
00101     QVariant initial_value;
00102     initial_value = QSortFilterProxyModel::data(index, role);
00103
00104     if (role == Qt::DisplayRole) {
00105         QString name = initial_value.toString();
00106         name.replace(Util::endsWithGpg(), "");
00107         initial_value.setValue(name);
00108     }
00109
00110     return initial_value;
00111 }

```

```

00112
00117 Qt::DropActions StoreModel::supportedDropActions() const {
00118     return Qt::CopyAction | Qt::MoveAction;
00119 }
00120
00125 Qt::DropActions StoreModel::supportedDragActions() const {
00126     return Qt::CopyAction | Qt::MoveAction;
00127 }
00128
00134 Qt::ItemFlags StoreModel::flags(const QModelIndex &index) const {
00135     Qt::ItemFlags defaultFlags = QSortFilterProxyModel::flags(index);
00136
00137     if (index.isValid()) {
00138         return Qt::ItemIsDragEnabled | Qt::ItemIsDropEnabled | defaultFlags;
00139     }
00140     return Qt::ItemIsDropEnabled | defaultFlags;
00141 }
00142
00147 QStringList StoreModel::mimeTypes() const {
00148     QStringList types;
00149     types << "application/vnd+qtpass.dragAndDropInfoPasswordStore";
00150     return types;
00151 }
00152
00158 QMimeData *StoreModel::mimeData(const QModelIndexList &indexes) const {
00159     dragAndDropInfoPasswordStore info;
00160
00161     QByteArray encodedData;
00162     // only use the first, otherwise we should enable multiselection
00163     QModelIndex index = indexes.at(0);
00164     if (index.isValid()) {
00165         QModelIndex useIndex = mapToSource(index);
00166
00167         info.isDir = fs->fileInfo(useIndex).isDir();
00168         info.isFile = fs->fileInfo(useIndex).isFile();
00169         info.path = fs->fileInfo(useIndex).absoluteFilePath();
00170         QDataStream stream(&encodedData, QIODevice::WriteOnly);
00171         stream << info;
00172     }
00173
00174     auto *mimeData = new QMimeData();
00175     mimeData->setData("application/vnd+qtpass.dragAndDropInfoPasswordStore",
00176                     encodedData);
00177     return mimeData;
00178 }
00179
00189 bool StoreModel::canDropMimeData(const QMimeData *data, Qt::DropAction action,
00190                                  int row, int column,
00191                                  const QModelIndex &parent) const {
00192     #ifdef QT_DEBUG
00193         qDebug() << action << row;
00194     #else
00195         Q_UNUSED(action)
00196         Q_UNUSED(row)
00197     #endif
00198
00199     QModelIndex useIndex =
00200         this->index(parent.row(), parent.column(), parent.parent());
00201     QByteArray encodedData =
00202         data->data("application/vnd+qtpass.dragAndDropInfoPasswordStore");
00203     QDataStream stream(&encodedData, QIODevice::ReadOnly);
00204     dragAndDropInfoPasswordStore info;
00205     stream >> info;
00206     if (!data->hasFormat("application/vnd+qtpass.dragAndDropInfoPasswordStore"))
00207         return false;
00208
00209     if (column > 0) {
00210         return false;
00211     }
00212
00213     // you can drop a folder on a folder
00214     if (fs->fileInfo(mapToSource(useIndex)).isDir() && info.isDir) {
00215         return true;
00216     }
00217     // you can drop a file on a folder
00218     if (fs->fileInfo(mapToSource(useIndex)).isDir() && info.isFile) {
00219         return true;
00220     }
00221     // you can drop a file on a file
00222     if (fs->fileInfo(mapToSource(useIndex)).isFile() && info.isFile) {
00223         return true;
00224     }
00225
00226     return false;
00227 }
00228
00238 bool StoreModel::dropMimeData(const QMimeData *data, Qt::DropAction action,

```

```

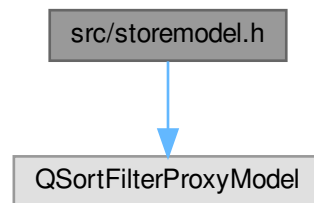
00239         int row, int column, const QModelIndex &parent) {
00240     if (!canDropMimeData(data, action, row, column, parent))
00241         return false;
00242
00243     if (action == Qt::IgnoreAction) {
00244         return true;
00245     }
00246     QByteArray encodedData =
00247         data->data("application/vnd+qtpass.dragAndDropInfoPasswordStore");
00248
00249     QDataStream stream(&encodedData, QIODevice::ReadOnly);
00250     dragAndDropInfoPasswordStore info;
00251     stream >> info;
00252     QModelIndex destIndex =
00253         this->index(parent.row(), parent.column(), parent.parent());
00254     QFileInfo destFileinfo = fs->fileInfo(mapToSource(destIndex));
00255     QFileInfo srcFileinfo = QFileInfo(info.path);
00256     QString cleanedSrc = QDir::cleanPath(srcFileinfo.absoluteFilePath());
00257     QString cleanedDest = QDir::cleanPath(destFileinfo.absoluteFilePath());
00258     if (info.isDir) {
00259         // dropped dir onto dir
00260         if (destFileinfo.isDir()) {
00261             QDir destDir = QDir(cleanedDest).filePath(srcFileinfo.fileName());
00262             QString cleanedDestDir = QDir::cleanPath(destDir.absolutePath());
00263             if (action == Qt::MoveAction) {
00264                 QtPassSettings::getPass()->Move(cleanedSrc, cleanedDestDir);
00265             } else if (action == Qt::CopyAction) {
00266                 QtPassSettings::getPass()->Copy(cleanedSrc, cleanedDestDir);
00267             }
00268         }
00269     } else if (info.isFile) {
00270         // dropped file onto a directory
00271         if (destFileinfo.isDir()) {
00272             if (action == Qt::MoveAction) {
00273                 QtPassSettings::getPass()->Move(cleanedSrc, cleanedDest);
00274             } else if (action == Qt::CopyAction) {
00275                 QtPassSettings::getPass()->Copy(cleanedSrc, cleanedDest);
00276             }
00277         } else if (destFileinfo.isFile()) {
00278             // dropped file onto a file
00279             int answer = QMessageBox::question(
00280                 nullptr, tr("force overwrite?"),
00281                 tr("overwrite %1 with %2?").arg(cleanedDest, cleanedSrc),
00282                 QMessageBox::Yes | QMessageBox::No);
00283             bool force = answer == QMessageBox::Yes;
00284             if (action == Qt::MoveAction) {
00285                 QtPassSettings::getPass()->Move(cleanedSrc, cleanedDest, force);
00286             } else if (action == Qt::CopyAction) {
00287                 QtPassSettings::getPass()->Copy(cleanedSrc, cleanedDest, force);
00288             }
00289         }
00290     }
00291     return true;
00292 }
00293
00300 bool StoreModel::lessThan(const QModelIndex &source_left,
00301                           const QModelIndex &source_right) const {
00302     /* matches logic in QFileSystemModelSorter::compareNodes() */
00303     #ifndef Q_OS_MAC
00304         if (fs && (source_left.column() == 0 || source_left.column() == 1)) {
00305             bool leftD = fs->isDir(source_left);
00306             bool rightD = fs->isDir(source_right);
00307
00308             if (leftD ^ rightD)
00309                 return leftD;
00310         }
00311     #endif
00312     return QSortFilterProxyModel::lessThan(source_left, source_right);
00313 }
00314 }

```

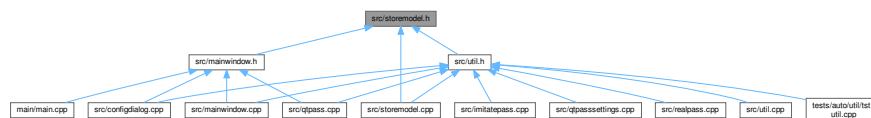
14.90 src/storemodel.h File Reference

```
#include <QSortFilterProxyModel>
```

Include dependency graph for storemodel.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [StoreModel](#)
The *QSortFilterProxyModel* for handling filesystem searches.
- struct [dragAndDropInfoPasswordStore](#)

14.91 storemodel.h

[Go to the documentation of this file.](#)

```

00001 #ifndef STOREMODEL_H_
00002 #define STOREMODEL_H_
00003
00004 #include <QSortFilterProxyModel>
00005
00010 class QFileSystemModel;
00011 class StoreModel : public QSortFilterProxyModel {
00012     Q_OBJECT
00013
00014 private:
00015     QFileSystemModel *fs;
00016     QString store;
00017
00018 public:
00019     StoreModel();
00020
00021     bool filterAcceptsRow(int, const QModelIndex &) const override;
00022     bool ShowThis(const QModelIndex) const;
00023     void setModelAndStore(QFileSystemModel *sourceModel, QString passStore);
00024     QVariant data(const QModelIndex &index, int role) const override;
00025     bool lessThan(const QModelIndex &source_left,
  
```

```

00026         const QModelIndex &source_right) const override;
00027
00028     // QAbstractItemModel interface
00029 public:
00030     Qt::DropActions supportedDropActions() const override;
00031     Qt::DropActions supportedDragActions() const override;
00032     Qt::ItemFlags flags(const QModelIndex &index) const override;
00033     QStringList mimeTypes() const override;
00034     QMimeData *mimeData(const QModelIndexList &indexes) const override;
00035     bool canDropMimeData(const QMimeData *data, Qt::DropAction action, int row,
00036                         int column, const QModelIndex &parent) const override;
00037     bool dropMimeData(const QMimeData *data, Qt::DropAction action, int row,
00038                     int column, const QModelIndex &parent) override;
00039 };
00045 struct dragAndDropInfoPasswordStore {
00046     bool isDir;
00047     bool isFile;
00048     QString path;
00049 };
00050
00051 #endif // STOREMODEL_H_

```

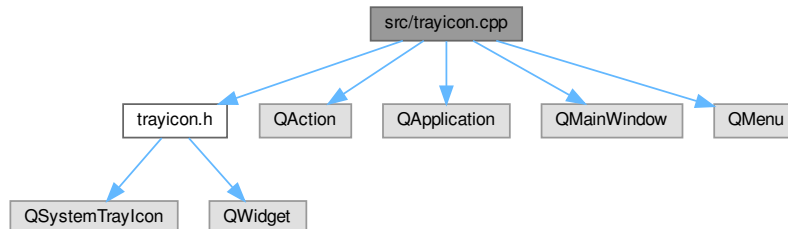
14.92 src/trayicon.cpp File Reference

```

#include "trayicon.h"
#include <QAction>
#include <QApplication>
#include <QMainWindow>
#include <QMenu>

```

Include dependency graph for trayicon.cpp:



14.93 trayicon.cpp

[Go to the documentation of this file.](#)

```

00001 #include "trayicon.h"
00002 #include <QAction>
00003 #include <QApplication>
00004 #include <QMainWindow>
00005 #include <QMenu>
00006
00007 #ifdef QT_DEBUG
00008 #include "debughelper.h"
00009 #endif
00010
00016 TrayIcon::TrayIcon(QMainWindow *parent)
00017     : showAction(nullptr), hideAction(nullptr), minimizeAction(nullptr),
00018       maximizeAction(nullptr), restoreAction(nullptr), quitAction(nullptr),
00019       sysTrayIcon(nullptr), trayIconMenu(nullptr), isAllocated(false) {
00020     parentwin = parent;
00021
00022     if (QSystemTrayIcon::isSystemTrayAvailable()) {
00023         createActions();

```

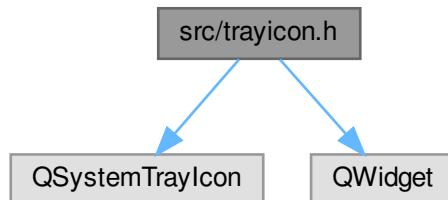
```

00024     createTrayIcon();
00025
00026     sysTrayIcon->setIcon(
00027         QIcon::fromTheme("qtpass-tray", QIcon(":/artwork/icon.png")));
00028
00029     sysTrayIcon->show();
00030
00031     QObject::connect(sysTrayIcon, &QSystemTrayIcon::activated, this,
00032         &TrayIcon::iconActivated);
00033
00034     isAllocated = true;
00035 }
00036 #ifdef QT_DEBUG
00037     else {
00038         dbg() << "No tray icon for this OS possibly also not show options?";
00039     }
00040 #endif
00041 }
00042
00047 void TrayIcon::setVisible(bool visible) {
00048     if (visible)
00049         parentwin->show();
00050     else
00051         parentwin->hide();
00052 }
00053
00057 bool TrayIcon::getIsAllocated() { return isAllocated; }
00058
00062 void TrayIcon::createActions() {
00063     showAction = new QAction(tr("&Show"), this);
00064     connect(showAction, &QAction::triggered, parentwin, &QWidget::show);
00065     hideAction = new QAction(tr("&Hide"), this);
00066     connect(hideAction, &QAction::triggered, parentwin, &QWidget::hide);
00067
00068     minimizeAction = new QAction(tr("Mi&nimize"), this);
00069     connect(minimizeAction, &QAction::triggered, parentwin,
00070         &QWidget::showMinimized);
00071     maximizeAction = new QAction(tr("Ma&ximize"), this);
00072     connect(maximizeAction, &QAction::triggered, parentwin,
00073         &QWidget::showMaximized);
00074     restoreAction = new QAction(tr("&Restore"), this);
00075     connect(restoreAction, &QAction::triggered, parentwin, &QWidget::showNormal);
00076
00077     quitAction = new QAction(tr("&Quit"), this);
00078     connect(quitAction, &QAction::triggered, qApp, &QApplication::quit);
00079 }
00080
00084 void TrayIcon::createTrayIcon() {
00085     trayIconMenu = new QMenu(this);
00086     trayIconMenu->addAction(showAction);
00087     trayIconMenu->addAction(hideAction);
00088     trayIconMenu->addAction(minimizeAction);
00089     trayIconMenu->addAction(maximizeAction);
00090     trayIconMenu->addAction(restoreAction);
00091     trayIconMenu->addSeparator();
00092     trayIconMenu->addAction(quitAction);
00093
00094     sysTrayIcon = new QSystemTrayIcon(this);
00095     sysTrayIcon->setContextMenu(trayIconMenu);
00096 }
00097
00101 void TrayIcon::showHideParent() {
00102     if (parentwin->isVisible())
00103         parentwin->hide();
00104     else
00105         parentwin->show();
00106 }
00107
00112 void TrayIcon::iconActivated(QSystemTrayIcon::ActivationReason reason) {
00113     switch (reason) {
00114     case QSystemTrayIcon::Trigger:
00115     case QSystemTrayIcon::DoubleClick:
00116         showHideParent();
00117         break;
00118     case QSystemTrayIcon::MiddleClick:
00119         showMessage("test", "test msg", 1000);
00120         break;
00121     default: {
00122     }
00123     }
00124 }
00125
00132 void TrayIcon::showMessage(const QString &title, const QString &msg, int time) {
00133     sysTrayIcon->showMessage(title, msg, QSystemTrayIcon::Information, time);
00134 }

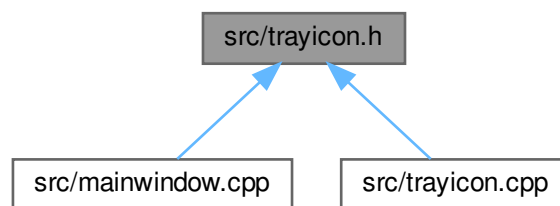
```

14.94 src/trayicon.h File Reference

```
#include <QSystemTrayIcon>
#include <QWidget>
Include dependency graph for trayicon.h:
```



This graph shows which files directly or indirectly include this file:



Classes

- class [TrayIcon](#)
Handles the systemtray icon and menu.

14.95 trayicon.h

[Go to the documentation of this file.](#)

```
00001 #ifndef TRAYICON_H_
00002 #define TRAYICON_H_
00003
00004 #include <QSystemTrayIcon>
00005 #include <QWidget>
00006
00011 class QAction;
00012 class QMainWindow;
00013 class QMenu;
00014 class TrayIcon : public QWidget {
```



```

00015  Q_OBJECT
00016
00017  public:
00018      explicit TrayIcon(QMainWindow *parent);
00019      void showMessage(const QString &title, const QString &msg, int time);
00020      void setVisible(bool visible);
00021      bool getIsAllocated();
00022
00023  signals:
00024
00025  public slots:
00026      void showHideParent();
00027      void iconActivated(QSystemTrayIcon::ActivationReason reason);
00028
00029  private:
00030      void createActions();
00031      void createTrayIcon();
00032
00033      QAction *showAction;
00034      QAction *hideAction;
00035      QAction *minimizeAction;
00036      QAction *maximizeAction;
00037      QAction *restoreAction;
00038      QAction *quitAction;
00039
00040      QSystemTrayIcon *sysTrayIcon;
00041      QMenu *trayIconMenu;
00042      QMainWindow *parentwin;
00043
00044      bool isAllocated;
00045  };
00046
00047  #endif // TRAYICON_H_

```

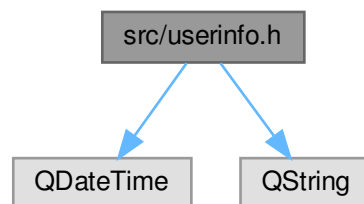
14.96 src/userinfo.h File Reference

```

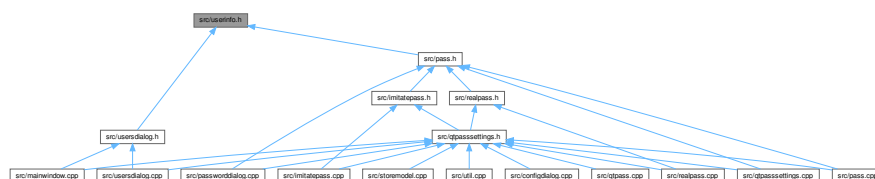
#include <QDateTime>
#include <QString>

```

Include dependency graph for userinfo.h:



This graph shows which files directly or indirectly include this file:




```

00002 #include "qtpasssettings.h"
00003 #include "ui_usersdialog.h"
00004 #include <QCloseEvent>
00005 #include <QKeyEvent>
00006 #include <QMessageBox>
00007 #include <QRegularExpression>
00008 #include <QWidget>
00009 #include <utility>
00010
00011 #ifdef QT_DEBUG
00012 #include "debughelper.h"
00013 #endif
00018 UsersDialog::UsersDialog(QString dir, QWidget *parent)
00019     : QDialog(parent), ui(new Ui::UsersDialog), m_dir(std::move(dir)) {
00020
00021     ui->setupUi(this);
00022
00023     QList<UserInfo> users = QtPassSettings::getPass()->listKeys();
00024     if (users.isEmpty()) {
00025         QMessageBox::critical(parent, tr("Keylist missing"),
00026                               tr("Could not fetch list of available GPG keys"));
00027         return;
00028     }
00029
00030     QList<UserInfo> secret_keys = QtPassSettings::getPass()->listKeys("", true);
00031     foreach (const UserInfo &sec, secret_keys) {
00032         for (auto &user : users)
00033             if (sec.key_id == user.key_id)
00034                 user.have_secret = true;
00035     }
00036
00037     QList<UserInfo> selected_users;
00038     int count = 0;
00039
00040     QStringList recipients = QtPassSettings::getPass()->getRecipientString(
00041         m_dir.isEmpty() ? "" : m_dir, " ", &count);
00042     if (!recipients.isEmpty())
00043         selected_users = QtPassSettings::getPass()->listKeys(recipients);
00044     foreach (const UserInfo &sel, selected_users) {
00045         for (auto &user : users)
00046             if (sel.key_id == user.key_id)
00047                 user.enabled = true;
00048     }
00049
00050     if (count > selected_users.size()) {
00051         // Some keys seem missing from keyring, add them separately
00052         QStringList recipients = QtPassSettings::getPass()->getRecipientList(
00053             m_dir.isEmpty() ? "" : m_dir);
00054         foreach (const QString recipient, recipients) {
00055             if (QtPassSettings::getPass()->listKeys(recipient).empty()) {
00056                 UserInfo i;
00057                 i.enabled = true;
00058                 i.key_id = recipient;
00059                 i.name = " ?? " + tr("Key not found in keyring");
00060                 users.append(i);
00061             }
00062         }
00063     }
00064
00065     m_userList = users;
00066     populateList();
00067
00068     connect(ui->buttonBox, &QDialogButtonBox::accepted, this,
00069             &UsersDialog::accept);
00070     connect(ui->buttonBox, &QDialogButtonBox::rejected, this, &QDialog::reject);
00071     connect(ui->listWidget, &QListWidget::itemChanged, this,
00072             &UsersDialog::itemChange);
00073
00074     ui->lineEdit->setClearButtonEnabled(true);
00075 }
00076
00080 UsersDialog::~UsersDialog() { delete ui; }
00081
00082 Q_DECLARE_METATYPE(UserInfo *)
00083
00084
00087 void UsersDialog::accept() {
00088     QtPassSettings::getPass()->Init(m_dir, m_userList);
00089
00090     QDialog::accept();
00091 }
00092
00098 void UsersDialog::closeEvent(QCloseEvent *event) {
00099     // TODO(annejan) save window size or something
00100     event->accept();
00101 }
00102

```

```

00108 void UsersDialog::keyPressEvent(QKeyEvent *event) {
00109     switch (event->key()) {
00110     case Qt::Key_Escape:
00111         ui->lineEdit->clear();
00112         break;
00113     default:
00114         break;
00115     }
00116 }
00117
00122 void UsersDialog::itemChange(QListWidgetItem *item) {
00123     if (!item)
00124         return;
00125     auto *info = item->data(Qt::UserRole).value<UserInfo *>();
00126     if (!info)
00127         return;
00128     info->enabled = item->checkState() == Qt::Checked;
00129 }
00130
00136 void UsersDialog::populateList(const QString &filter) {
00137     QRegularExpression nameFilter(
00138         QRegularExpression::wildcardToRegularExpression("*" + filter + "*"),
00139         QRegularExpression::CaseInsensitiveOption);
00140     ui->listWidget->clear();
00141     if (!m_userList.isEmpty()) {
00142         for (auto &user : m_userList) {
00143             if (filter.isEmpty() || nameFilter.match(user.name).hasMatch()) {
00144                 if (!user.isValid() && !ui->checkBox->isChecked())
00145                     continue;
00146                 if (user.expiry.toSecsSinceEpoch() > 0 &&
00147                     user.expiry.daysTo(QDateTime::currentDateTime()) > 0 &&
00148                     !ui->checkBox->isChecked())
00149                     continue;
00150                 QString userText = user.name + "\n" + user.key_id;
00151                 if (user.created.toSecsSinceEpoch() > 0) {
00152                     userText +=
00153                         " " + tr("created") + " " +
00154                         QLocale::system().toString(user.created, QLocale::ShortFormat);
00155                 }
00156                 if (user.expiry.toSecsSinceEpoch() > 0)
00157                     userText +=
00158                         " " + tr("expires") + " " +
00159                         QLocale::system().toString(user.expiry, QLocale::ShortFormat);
00160                 auto *item = new QListWidgetItem(userText, ui->listWidget);
00161                 item->setCheckState(user.enabled ? Qt::Checked : Qt::Unchecked);
00162                 item->setData(Qt::UserRole, QVariant::fromValue(&user));
00163                 if (user.have_secret) {
00164                     // item->setForeground(QColor(32, 74, 135));
00165                     item->setForeground(Qt::blue);
00166                     QFont font;
00167                     font.setFamily(font.defaultFamily());
00168                     font.setBold(true);
00169                     item->setFont(font);
00170                 } else if (!user.isValid()) {
00171                     item->setBackground(QColor(164, 0, 0));
00172                     item->setForeground(Qt::white);
00173                 } else if (user.expiry.toSecsSinceEpoch() > 0 &&
00174                     user.expiry.daysTo(QDateTime::currentDateTime()) > 0) {
00175                     item->setForeground(QColor(164, 0, 0));
00176                 } else if (!user.fullyValid()) {
00177                     item->setBackground(QColor(164, 80, 0));
00178                     item->setForeground(Qt::white);
00179                 }
00180                 ui->listWidget->addItem(item);
00181             }
00182         }
00183     }
00184 }
00185
00191 void UsersDialog::on_lineEdit_textChanged(const QString &filter) {
00192     populateList(filter);
00193 }
00194
00198 void UsersDialog::on_checkBox_clicked() { populateList(ui->lineEdit->text()); }

```

14.100 src/usersdialog.h File Reference

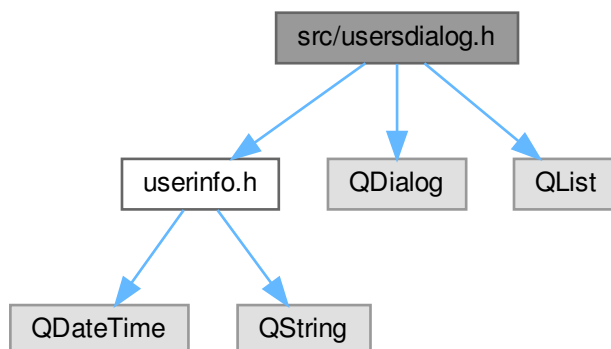
```

#include "userinfo.h"
#include <QDialog>

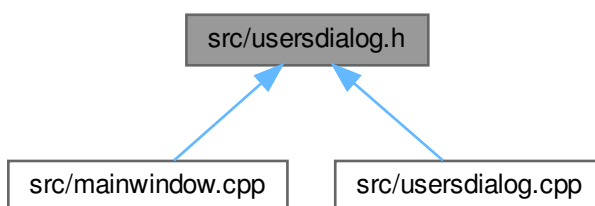
```

```
#include <QList>
```

Include dependency graph for usersdialog.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [UsersDialog](#)
Handles listing and editing of GPG users.

Namespaces

- namespace [Ui](#)

14.103 util.cpp

[Go to the documentation of this file.](#)

```

00001 #include "util.h"
00002 #include <QDir>
00003 #include <QFileInfo>
00004 #ifdef Q_OS_WIN
00005 #include <windows.h>
00006 #else
00007 #include <sys/time.h>
00008 #endif
00009 #include "qtpasssettings.h"
00010
00011 #ifdef QT_DEBUG
00012 #include "debughelper.h"
00013 #endif
00014
00015 QProcessEnvironment Util::_env;
00016 bool Util::_envInitialised;
00017
00022 void Util::initialiseEnvironment() {
00023     if (!_envInitialised) {
00024         _env = QProcessEnvironment::systemEnvironment();
00025         #ifdef __APPLE__
00026             QString path = _env.value("PATH");
00027             if (!path.contains("/usr/local/MacGPG2/bin") &&
00028                 QFile("/usr/local/MacGPG2/bin").exists())
00029                 path += "/usr/local/MacGPG2/bin";
00030             if (!path.contains("/usr/local/bin"))
00031                 path += "/usr/local/bin";
00032             _env.insert("PATH", path);
00033         #endif
00034         #ifdef Q_OS_WIN
00035             QString path = _env.value("PATH");
00036             if (!path.contains("C:\\Program Files\\WinGPG\\x86") &&
00037                 QFile("C:\\Program Files\\WinGPG\\x86").exists())
00038                 path += "C:\\Program Files\\WinGPG\\x86";
00039             if (!path.contains("C:\\Program Files\\GnuPG\\bin") &&
00040                 QFile("C:\\Program Files\\GnuPG\\bin").exists())
00041                 path += "C:\\Program Files\\GnuPG\\bin";
00042             _env.insert("PATH", path);
00043         #endif
00044         #ifdef QT_DEBUG
00045             dbg() << _env.value("PATH");
00046         #endif
00047         _envInitialised = true;
00048     }
00049 }
00050
00056 QString Util::findPasswordStore() {
00057     QString path;
00058     initialiseEnvironment();
00059     if (_env.contains("PASSWORD_STORE_DIR")) {
00060         path = _env.value("PASSWORD_STORE_DIR");
00061     } else {
00062         #ifdef Q_OS_WIN
00063             path = QDir::homePath() + QDir::separator() + "password-store" +
00064                 QDir::separator();
00065         #else
00066             path = QDir::homePath() + QDir::separator() + ".password-store" +
00067                 QDir::separator();
00068         #endif
00069     }
00070     return Util::normalizeFolderPath(path);
00071 }
00072
00079 QString Util::normalizeFolderPath(QString path) {
00080     if (!path.endsWith("/") && !path.endsWith(QDir::separator()))
00081         path += QDir::separator();
00082     return QDir::toNativeSeparators(path);
00083 }
00084
00090 QString Util::findBinaryInPath(QString binary) {
00091     initialiseEnvironment();
00092
00093     QString ret = "";
00094
00095     binary.prepend(QDir::separator());
00096
00097     if (_env.contains("PATH")) {
00098         QString path = _env.value("PATH");
00099
00100         QStringList entries;
00101         #ifdef Q_OS_WIN
00102             entries = path.split(';');

```

```

00103     if (entries.length() < 2) {
00104 #endif
00105         entries = path.split('/');
00106 #ifndef Q_OS_WIN
00107     }
00108 #endif
00109
00110     foreach (QString entry, entries) {
00111         QScopedPointer<QFileInfo> qfi(new QFileInfo(entry.append(binary)));
00112 #ifdef Q_OS_WIN
00113         if (!qfi->exists())
00114             qfi.reset(new QFileInfo(entry.append(".exe")));
00115 #endif
00116         if (!qfi->isExecutable())
00117             continue;
00118
00119         ret = qfi->absoluteFilePath();
00120         break;
00121     }
00122 }
00123
00124 #ifdef Q_OS_WIN
00125 if (ret.isEmpty()) {
00126     binary.remove(0, 1);
00127     binary.prepend("wsl ");
00128     QString out, err;
00129     if (Executor::executeBlocking(binary, {"--version"}, &out, &err) == 0 &&
00130         !out.isEmpty() && err.isEmpty())
00131         ret = binary;
00132 }
00133 #endif
00134
00135 return ret;
00136 }
00137
00142 bool Util::checkConfig() {
00143     return !QFile(QDir(QtPassSettings::getPassStore()).filePath(".pgp-id"))
00144         .exists() ||
00145         (QtPassSettings::isUsePass()
00146          ? !QtPassSettings::getPassExecutable().startsWith("wsl ") &&
00147            !QFile(QtPassSettings::getPassExecutable()).exists()
00148          : !QtPassSettings::getGpgExecutable().startsWith("wsl ") &&
00149            !QFile(QtPassSettings::getGpgExecutable()).exists());
00150 }
00151
00160 QString Util::getDir(const QModelIndex &index, bool forPass,
00161                     const QFileSystemModel &model,
00162                     const StoreModel &storeModel) {
00163     QString abspath =
00164         QDir(QtPassSettings::getPassStore()).absolutePath() + QDir::separator();
00165     if (!index.isValid())
00166         return forPass ? "" : abspath;
00167     QFileInfo info = model.fileInfo(storeModel.mapToSource(index));
00168     QString filePath =
00169         (info.isFile() ? info.absolutePath() : info.absoluteFilePath());
00170     if (forPass) {
00171         filePath = QDir(abspath).relativeFilePath(filePath);
00172     }
00173     filePath += QDir::separator();
00174     return filePath;
00175 }
00176
00182 void Util::copyDir(const QString &src, const QString &dest) {
00183     QDir srcDir(src);
00184     if (!srcDir.exists()) {
00185         return;
00186     }
00187     srcDir.mkpath(dest);
00188     foreach (QString dir, srcDir.entryList(QDir::Dirs | QDir::NoDotAndDotDot)) {
00189         copyDir(src + QDir::separator() + dir, dest + QDir::separator() + dir);
00190     }
00191
00192     foreach (QString file, srcDir.entryList(QDir::Files)) {
00193         QFile::copy(src + QDir::separator() + file,
00194                   dest + QDir::separator() + file);
00195     }
00196 }
00197
00198 const QRegularExpression &Util::endsWithGpg() {
00199     static const QRegularExpression expr{"\\.pgp$"};
00200     return expr;
00201 }
00202
00203 const QRegularExpression &Util::protocolRegex() {
00204     static const QRegularExpression regex{
00205         "(?:https?|ftp|ssh|sftp|ftps|webdav|webdavs)://\\S+"};
00206     return regex;

```

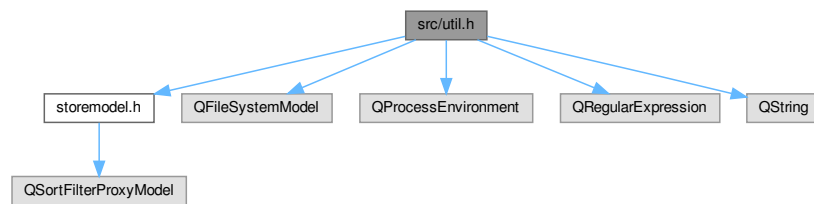


```
00207 }
```

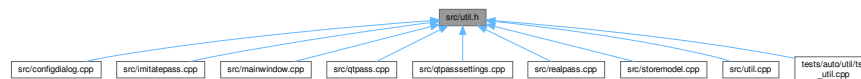
14.104 src/util.h File Reference

```
#include "storemodel.h"
#include <QFileSystemModel>
#include <QProcessEnvironment>
#include <QRegularExpression>
#include <QString>
```

Include dependency graph for util.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [Util](#)

Some static utilities to be used elsewhere.

14.105 util.h

[Go to the documentation of this file.](#)

```
00001 #ifndef UTIL_H_
00002 #define UTIL_H_
00003
00004 #include "storemodel.h"
00005 #include <QFileSystemModel>
00006 #include <QProcessEnvironment>
00007 #include <QRegularExpression>
00008 #include <QString>
00009
00010 class StoreModel;
00011
00016 class Util {
00017 public:
00018     static QString findBinaryInPath(QString binary);
00019     static QString findPasswordStore();
00020     static QString normalizeFolderPath(QString path);
00021     static bool checkConfig();
```

```

00022 static QString getDir(const QModelIndex &index, bool forPass,
00023                       const QFileSystemModel &model,
00024                       const StoreModel &storeModel);
00025 static void copyDir(const QString &src, const QString &dest);
00026 static const QRegularExpression &endsWithGpg();
00027 static const QRegularExpression &protocolRegex();
00028
00029 private:
00030 static void initialiseEnvironment();
00031 static QProcessEnvironment _env;
00032 static bool _envInitialised;
00033 };
00034
00035 #endif // UTIL_H_

```

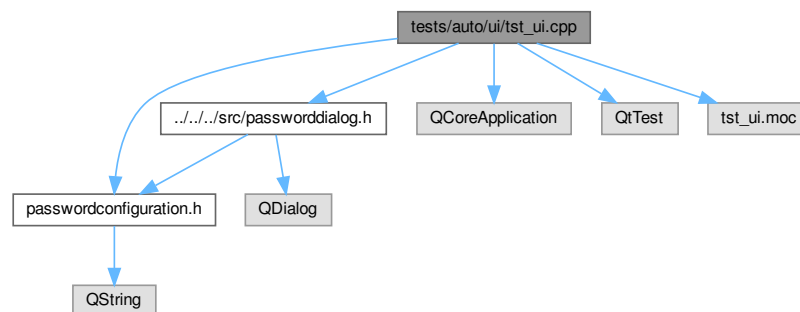
14.106 tests/auto/ui/tst_ui.cpp File Reference

```

#include "../../src/passworddialog.h"
#include "passwordconfiguration.h"
#include <QCoreApplication>
#include <QtTest>
#include "tst_ui.moc"

```

Include dependency graph for `tst_ui.cpp`:



Classes

- class `tst_ui`

The `tst_ui` class is our first unit test.

14.107 tst_ui.cpp

[Go to the documentation of this file.](#)

```

00001 #include "../../src/passworddialog.h"
00002 #include "passwordconfiguration.h"
00003 #include <QCoreApplication>
00004 #include <QtTest>
00005
00009 class tst_ui : public QObject {
00010     Q_OBJECT
00011
00012 private Q_SLOTS:
00013     void contentRemainsSame();
00014 };
00015

```

```

00021 void tst_ui::contentRemainsSame() {
00022     QScopedPointer<PasswordDialog> d(
00023         new PasswordDialog(PasswordConfiguration{}, nullptr));
00024     d->setTemplate("", false);
00025     QString input = "pw\n";
00026     d->setPass(input);
00027     QCOMPARE(d->getPassword(), input);
00028
00029     d.reset(new PasswordDialog(PasswordConfiguration{}, nullptr));
00030     input = "pw\nname: value\n";
00031     d->setPass(input);
00032     QCOMPARE(d->getPassword(), input);
00033
00034     d.reset(new PasswordDialog(PasswordConfiguration{}, nullptr));
00035     d->setTemplate("name", false);
00036     d->setPass(input);
00037     QCOMPARE(d->getPassword(), input);
00038
00039     d.reset(new PasswordDialog(PasswordConfiguration{}, nullptr));
00040     d->setTemplate("name", true);
00041     d->setPass(input);
00042     QCOMPARE(d->getPassword(), input);
00043
00044     d.reset(new PasswordDialog(PasswordConfiguration{}, nullptr));
00045     d->setTemplate("", false);
00046     d->templateAll(true);
00047     d->setPass(input);
00048     QCOMPARE(d->getPassword(), input);
00049
00050     d.reset(new PasswordDialog(PasswordConfiguration{}, nullptr));
00051     d->setTemplate("", true);
00052     d->templateAll(true);
00053     d->setPass(input);
00054     QCOMPARE(d->getPassword(), input);
00055
00056     d.reset(new PasswordDialog(PasswordConfiguration{}, nullptr));
00057     d->setTemplate("name", true);
00058     d->templateAll(true);
00059     d->setPass(input);
00060     QCOMPARE(d->getPassword(), input);
00061 }
00062
00063 QTEST_MAIN(tst_ui)
00064 #include "tst_util.moc"

```

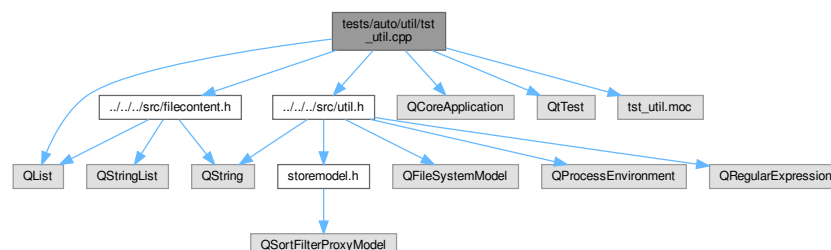
14.108 tests/auto/util/tst_util.cpp File Reference

```

#include "../src/filecontent.h"
#include "../src/util.h"
#include <QCoreApplication>
#include <QList>
#include <QtTest>
#include "tst_util.moc"

```

Include dependency graph for tst_util.cpp:



Classes

- class `tst_util`

The [tst_util](#) class is our first unit test.

Functions

- bool `operator==` (const [NamedValue](#) &a, const [NamedValue](#) &b)

14.108.1 Function Documentation

14.108.1.1 `operator==()`

```
bool operator== (
    const NamedValue & a,
    const NamedValue & b )
```

Definition at line 28 of file [tst_util.cpp](#).

14.109 `tst_util.cpp`

[Go to the documentation of this file.](#)

```
00001 #include "../src/filecontent.h"
00002 #include "../src/util.h"
00003 #include <QCoreApplication>
00004 #include <QList>
00005 #include <QtTest>
00006
00010 class tst\_util : public QObject {
00011     Q_OBJECT
00012
00013 public:
00014     tst\_util();
00015     ~tst\_util() override;
00016
00017 public Q_SLOTS:
00018     void init();
00019     void cleanup();
00020
00021 private Q_SLOTS:
00022     void initTestCase();
00023     void cleanupTestCase();
00024     void normalizeFolderPath();
00025     void fileContent();
00026 };
00027
00028 bool operator==(const NamedValue &a, const NamedValue &b) {
00029     return a.name == b.name && a.value == b.value;
00030 }
00031
00035 tst\_util::tst\_util() = default;
00036
00040 tst\_util::~~tst\_util() = default;
00041
00045 void tst\_util::init() {}
00046
00050 void tst\_util::cleanup() {}
00051
00055 void tst\_util::initTestCase() {}
00056
00060 void tst\_util::cleanupTestCase() {}
00061
00066 void tst\_util::normalizeFolderPath() {
00067     QCOMPARE(Util::normalizeFolderPath("test"),
00068             QDir::toNativeSeparators("test/"));
00069     QCOMPARE(Util::normalizeFolderPath("test/"),
00070             QDir::toNativeSeparators("test/"));
```

```
00071 }
00072
00073 void tst_util::fileContent() {
00074     NamedValue key = {"key", "val"};
00075     NamedValue key2 = {"key2", "val2"};
00076     QString password = "password";
00077
00078     FileContent fc = FileContent::parse("password\n", {}, false);
00079     QCOMPARE(fc.getPassword(), password);
00080     QCOMPARE(fc.getNamedValues(), {});
00081     QCOMPARE(fc.getRemainingData(), QString());
00082
00083     fc = FileContent::parse("password", {}, false);
00084     QCOMPARE(fc.getPassword(), password);
00085     QCOMPARE(fc.getNamedValues(), {});
00086     QCOMPARE(fc.getRemainingData(), QString());
00087
00088     fc = FileContent::parse("password\nfoobar\n", {}, false);
00089     QCOMPARE(fc.getPassword(), password);
00090     QCOMPARE(fc.getNamedValues(), {});
00091     QCOMPARE(fc.getRemainingData(), QString("foobar\n"));
00092
00093     fc = FileContent::parse("password\nkey: val\nkey2: val2", {"key2"}, false);
00094     QCOMPARE(fc.getPassword(), password);
00095     QCOMPARE(fc.getNamedValues(), {key2});
00096     QCOMPARE(fc.getRemainingData(), QString("key: val"));
00097
00098     fc = FileContent::parse("password\nkey: val\nkey2: val2", {"key2"}, true);
00099     QCOMPARE(fc.getPassword(), password);
00100     QCOMPARE(fc.getNamedValues(), NamedValues({key, key2}));
00101     QCOMPARE(fc.getRemainingData(), QString());
00102 }
00103
00104 QTEST_MAIN(tst_util)
00105 #include "tst_util.moc"
```


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