

Package: ghqc (via r-universe)

October 29, 2024

Title Manage QC via GitHub Issues using Shiny Apps

Version 0.1.2

Description This package launches 3 ghqc applications as background jobs to aid the QC process through the use of shiny apps. It also contains aides to maintain the proper setup of the ecosystem. Namely, it will aide in the installation of ghqc.apps and its dependencies into an isolated directory as to not interfere with the project being QC'ed.

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Imports httpuv (>= 1.6.11), rstudioapi, withr (>= 2.5.0), glue (>= 1.2.0), processx (>= 3.5.0), rlang, cli, fs, yaml

Suggests gert (>= 1.5.0), pak

Depends R (>= 2.10)

Config/Needs/website sessioninfo

URL <https://a2-ai.github.io/ghqc>

Repository <https://a2-ai.r-universe.dev>

RemoteUrl <https://github.com/a2-ai/ghqc>

RemoteRef HEAD

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check_ghqcapp_dependencies

Check the installed/linked packages in lib_path against the recommended ghqc.app dependency package version

Description

Check the installed/linked packages in lib_path against the recommended ghqc.app dependency package version

Usage

```
check_ghqcapp_dependencies(lib_path = ghqc_libpath(), use_pak = TRUE)
```

Arguments

lib_path	<i>(optional)</i> the path to the installed/linked dependencies. If not set, defaults to "~/.local/share/ghqc/rpkgs"
use_pak	<i>(optional)</i> optionally removes the requirement to have pak installed in the project repository. Setting to FALSE will reduce performance

Value

This function is primarily used for its printed results and subsequent actions, not a returned output. Will return a dataframe of package upgrades needed

check_ghqc_configuration

Check the content of the downloaded ghqc configuration information repository and download any updates needed

Description

Check the content of the downloaded ghqc configuration information repository and download any updates needed

Usage

```
check_ghqc_configuration(info_path = ghqc_infopath())
```

Arguments

info_path *(optional)* path in which the repository, set in environmental variable GHQC_INFO_REPO, is, or should be, downloaded to. Defaults to `~/ .local/share/ghqc/{repo_name}`

download_ghqc_configuration

Download the customizing information repository as set in environmental variable GHQC_INFO_REPO

Description

Download the customizing information repository as set in environmental variable GHQC_INFO_REPO

Usage

```
download_ghqc_configuration(info_path = ghqc_infopath(), .force = FALSE)
```

Arguments

info_path *(optional)* path in which the repository, set in environmental variable GHQC_INFO_REPO, is, or should be, downloaded to. Defaults to `~/ .local/share/ghqc/{repo_name}`

.force *(optional)* option to force a new download of the ghqc configuration information repository

 ghqc_assign_app

Assign file(s) to be reviewed for QC

Description

This function provides an interface to assign one or more files for QC in the form of a GitHub Issue(s) within a GitHub Milestone, with options to assign a repository collaborator as the QCer and/or generate a checklist of suggested review tasks during QC.

Each Issue created corresponds to a single file assigned to be reviewed for QC. Issues are organized into Milestones as designated by the user.

To assign file(s) for QC:

1. Input a name to create a new Milestone or select an existing Milestone.
2. Optional: if creating a new Milestone, input a description.
3. Optional: select one or more collaborators who will be assigned to perform the QC. The selected collaborator(s) will not be assignee(s) until explicitly assigned to one or more selected files (Step 5 below).
4. Select one or more files from the file tree. Click the + signs to expand directories in the file tree.
5. Optional: select an assignee for each selected file.
6. Select a checklist type for each selected file.
7. Post the Milestone by clicking "Assign File(s) for QC" on the bottom of the pane.

At any time, the user can:

- Click the `Preview file contents` button below a selected file to view its contents.
- Click the `Preview checklist` button below a selected file to view the items in a its selected checklist.

Usage

```
ghqc_assign_app(
  app_name = "ghqc_assign_app",
  qc_dir = getwd(),
  lib_path = ghqc_libpath(),
  info_path = ghqc_infopath()
)
```

Arguments

<code>app_name</code>	the name of the app to run in the background
<code>qc_dir</code>	the directory in which the app is run
<code>lib_path</code>	the path to the ghqc package and its dependencies
<code>info_path</code>	the path to the ghqc configuring information

See Also

[ghqc_resolve_app](#) and [ghqc_record_app](#)

ghqc_infopath	<i>The default install location for the ghqc customizing information repository</i>
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Description

The default install location for the ghqc customizing information repository

Usage

ghqc_infopath()

Value

string containing the default path to the ghqc information repository (~/.local/share/ghqc/<info repo name here>

ghqc_libpath	<i>The default install location for the ghqc package and its dependencies. If it does not exist, it will be created.</i>
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Description

The default install location for the ghqc package and its dependencies. If it does not exist, it will be created.

Usage

ghqc_libpath()

Value

string containing the default lib path for the ghqc package and its dependencies (~/.local/share/ghqc/rpkgs)

`ghqc_record_app`*Generate a QC Record for one or more Milestones*

Description

This function allows the user to generate a QC Record for one or more Milestones created with [ghqc_assign_app](#).

To Generate a QC Record:

1. Select one or more Milestones.
 - optional to include both open and closed Milestones by unchecking "Closed Milestones only".
2. Optional: input a name for the PDF.
 - The default name is a hyphenated combination of the GitHub repository name and selected Milestone name(s).
3. Optional: input the directory in which to generate the PDF.
 - The default directory is the root of the R project.
4. Optional: indicate if the report should only include the Milestone and Issue summary tables by checking "Just tables". Else, the default setting will generate a Record that contains the summary tables up front as well as detailed descriptions for each Issue including version control information, users, datetimes, events, actions, comments and more.
5. Create the PDF by clicking "Generate QC Record" at the bottom of the pane.

Usage

```
ghqc_record_app(  
  app_name = "ghqc_record_app",  
  qc_dir = getwd(),  
  lib_path = ghqc_libpath(),  
  info_path = ghqc_infopath()  
)
```

Arguments

<code>app_name</code>	the name of the app to run in the background
<code>qc_dir</code>	the directory in which the app is run
<code>lib_path</code>	the path to the ghqc package and its dependencies
<code>info_path</code>	the path to the ghqc configuring information

See Also

[ghqc_assign_app](#) and [ghqc_resolve_app](#)

Description

This function allows a user to insert a comment into a ghqc GitHub Issue that displays changes in the version control information for the Issue's corresponding file. By default, the comment displays both the original and current commits and hashes for the file. These versions are selected by the user. The comment can optionally display the file difference ("diff") between the current and previous versions. These changes will likely be implementations of QC feedback.

To use this app, first initialize one or more Issues with [ghqc_assign_app](#).

To comment in an Issue:

1. Optional: filter to the set of Issues within a Milestone.
2. Select the Issue to be updated.
3. Optional: provide a contextualizing message about the changes made to the file (e.g. "Implemented QC feedback for line 20").
4. Optional: insert the file difference display into the comment, by selecting "Show file difference". If displaying the file difference, choose to either:
 - compare the original version with the current version or,
 - compare a previous version with the current version.
5. Optional: preview the comment before posting to the Issue.
6. Post the comment to the Issue.

Usage

```
ghqc_resolve_app(  
  app_name = "ghqc_resolve_app",  
  qc_dir = getwd(),  
  lib_path = ghqc_libpath(),  
  info_path = ghqc_infopath()  
)
```

Arguments

app_name	the name of the app to run in the background
qc_dir	the directory in which the app is run
lib_path	the path to the ghqc package and its dependencies
info_path	the path to the ghqc configuring information

See Also

[ghqc_assign_app](#) and [ghqc_record_app](#)

ghqc_sitrep	<i>Situation report for ghqc set-up</i>
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Description

Situation report for ghqc set-up

Usage

```
ghqc_sitrep(..., lib_path = ghqc_libpath(), info_path = ghqc_infopath())
```

Arguments

...	options to expand output. Current option is only "pkgs" to expand list of dependencies
lib_path	the path to the ghqc package and its dependencies
info_path	the path to the ghqc customizing information

Value

This function is primarily used for its printed output, not a returned output

install_ghqcapp_dependencies	<i>install ghqc.app's dependencies into an isolated library</i>
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Description

install ghqc.app's dependencies into an isolated library

Usage

```
install_ghqcapp_dependencies(  
  lib_path = ghqc_libpath(),  
  pkgs = ghqc_depends,  
  use_pak = TRUE  
)
```

Arguments

lib_path	<i>(optional)</i> the path to install the dependencies. If not set, defaults to "~/local/share/ghqc/rpkgs"
pkgs	<i>(optional)</i> list of packages to install. Defaults to ghqc and all of its dependencies
use_pak	<i>(optional)</i> optionally removes the requirement to have pak installed in the project repository. Setting to FALSE will reduce performance

is_shiny_ready	<i>Shiny is "ready" if the download.file is able to serve the starting html, at this point, we will try to hit the shiny app and see if it downloads</i>
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Description

Shiny is "ready" if the download.file is able to serve the starting html, at this point, we will try to hit the shiny app and see if it downloads

Usage

```
is_shiny_ready(url)
```

Arguments

url	the http port
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Value

true or false depending on if Shiny is ready

link_ghqcapp_dependencies	<i>symlink previously installed package library containing all ghqc.app dependencies to an isolated package library</i>
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Description

symlink previously installed package library containing all ghqc.app dependencies to an isolated package library

Usage

```
link_ghqcapp_dependencies(link_path, lib_path = ghqc_libpath())
```

Arguments

link_path	the path to the installed package library
lib_path	<i>(optional)</i> the path to install the dependencies. If not set, defaults to "~/local/share/ghqc/rpkgs"

Value

this function is primarily used for its effects, but will the results of the symlink

```
remove_ghqc_configuration
    Remove the downloaded customizing information repository from
    info_path
```

Description

Remove the downloaded customizing information repository from info_path

Usage

```
remove_ghqc_configuration(info_path = ghqc_infopath())
```

Arguments

info_path *(optional)* path in which the repository, set in environmental variable GHQC_INFO_REPO, is, or should be, downloaded to. Defaults to ~/.local/share/ghqc/{repo_name}

Value

this function is used for its effects, but will return the removed info_path

```
remove_ghqc_dependencies
    Remove all content in the specified lib path. Optionally removes the
    cache as well.
```

Description

Remove all content in the specified lib path. Optionally removes the cache as well.

Usage

```
remove_ghqc_dependencies(lib_path = ghqc_libpath(), cache = FALSE)
```

Arguments

lib_path *(optional)* the path to the installed dependency packages. If not set, defaults to "~/.local/share/ghqc/rpkgs"

cache *(optional)* flag of whether to clear the cache or not. Defaults to keeping the cache

Value

information related to deleted lib path

setup_ghqc	<i>Interactive function to set up the ghqc environment, including writing to the .Renviron, configuration information repository download, and ghqc.app dependency installation/linking, for use of the ghqc application suite</i>
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Description

Interactive function to set up the ghqc environment, including writing to the .Renviron, configuration information repository download, and ghqc.app dependency installation/linking, for use of the ghqc application suite

Usage

```
setup_ghqc()
```

Value

This function is used for its effects, not outputs. It will return the results of any ghqc dependency installation as needed

setup_ghqc_renvirion	<i>helper function to setup/write Renviron file for ghqc</i>
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Description

helper function to setup/write Renviron file for ghqc

Usage

```
setup_ghqc_renvirion(GHQC_INFO_REPO)
```

Arguments

GHQC_INFO_REPO Repository URL to the customizing information repository

Value

This function is used primarily to write to the ~/.Renviron file. It will return the text contained in ~/.Renviron

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