

Package ‘gitgadget’

March 21, 2019

Type Package

Title Rstudio Addin for Version Control and Assignment Management
using Git

Version 0.4.0

Date 2019-3-20

Description An Rstudio addin for version control that allows users to clone repositories, create and delete branches, and sync forks on GitHub, GitLab, etc. Furthermore, the addin uses the GitLab API to allow instructors to create forks and merge requests for all students/teams with one click of a button.

Depends R (>= 3.4.0)

Imports shiny (>= 1.1.0), miniUI (>= 0.1.1.1), rstudioapi (>= 0.7),
curl (>= 3.2), jsonlite (>= 1.5), dplyr (>= 0.7.6), shinyFiles
(>= 0.7.0), callr (>= 2.0.4), usethis (>= 1.4.0), markdown

Suggests knitr, rmarkdown

URL URL: <https://github.com/vnijs/gitgadget>

BugReports <https://github.com/vnijs/gitgadget/issues>

License GPL-3

LazyData true

RoxygenNote 6.1.1

Encoding UTF-8

Language en-US

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

Date/Publication 2019-03-21 05:40:03 UTC

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assign_work	<i>Assign work to each student/team by creating a fork of the main repo</i>
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Description

Assign work to each student/team by creating a fork of the main repo

Usage

```
assign_work(token, groupname, assignment, userfile, type = "individual",
            pre = "", server = "https://gitlab.com/api/v4/")
```

Arguments

token	GitLab token
groupname	Group to create on gitlab (defaults to user's namespace)
assignment	Name of the assignment to assign
userfile	A csv file with student information (i.e., username and token)
type	Individual or Team work
pre	Pre-amble for the assignment name, usually groupname + "-"
server	The gitlab API server

Details

See <https://github.com/vnijs/gitgadget> for additional documentation

collect_work	<i>Create merge requests for each student/team</i>
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Description

Create merge requests for each student/team

Usage

```
collect_work(token, assignment, userfile, type = "individual",
             server = "https://gitlab.com/api/v4/")
```

Arguments

token	GitLab token
assignment	Name of the assignment (e.g., "class345/class345-assignment1")
userfile	A csv file with student information (i.e., username and token)
type	Individual or Team work
server	The gitlab API server

Details

See <https://github.com/vnijs/gitgadget> for additional documentation

create_group	<i>Create a group on gitlab using the API</i>
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Description

Create a group on gitlab using the API

Usage

```
create_group(token, groupname = "", userfile = "", permission = 20,
             server = "https://gitlab.com/api/v4/")
```

Arguments

token	GitLab token
groupname	Group to create on gitlab (defaults to user's namespace)
userfile	A csv file with student information (i.e., username and token)
permission	Permission setting for the group (default is 20, i.e., reporter)
server	The gitlab API server

Details

See <https://github.com/vnijs/gitgadget> for additional documentation

create_repo

Create the main repo from a local directory

Description

Create the main repo from a local directory

Usage

```
create_repo(username = Sys.getenv("git.user"),
            token = Sys.getenv("git.token"), repo = basename(getwd()),
            base_dir = dirname(getwd()), groupname = "", pre = "",
            ssh = FALSE, server = "https://gitlab.com/api/v4/")
```

Arguments

username	Username
token	Token (e.g., Sys.getenv("git.token") or Sys.getenv("GITHUB_PAT"))
repo	Name of the repo (assignment)
base_dir	Base directory for the repo. file.path(directory, assignment) should exist
groupname	Group to create on gitlab (defaults to user's namespace)
pre	Pre-amble for the repo (assignment) name
ssh	Use SSH for authentication
server	The gitlab API server

Details

See <https://github.com/vnijs/gitgadget> for additional documentation

fetch_work	<i>Fetch all merge requests as local branches and link to a remote</i>
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Description

Fetch all merge requests as local branches and link to a remote

Usage

```
fetch_work(token, assignment, server = "https://gitlab.com/api/v4/")
```

Arguments

token	GitLab token
assignment	Name of the assignment (e.g., "class345/class345-assignment1")
server	The gitlab API server

Details

See <https://github.com/vnijs/gitgadget> for additional documentation

gitgadget	<i>gitgadget</i>
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Description

gitgadget
Launch gitgadget in Rstudio viewer if available

Usage

```
gitgadget(port = get_port())
```

Arguments

port	Port to use for the app
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Details

See <https://github.com/vnijs/gitgadget> for documentation

gitgadget_callr	<i>Launch gitgadget in a separate process</i>
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Description

Launch gitgadget in a separate process

Usage

```
gitgadget_callr()
```

Details

Using the callr package to launch gitgadget in a separate process so the console is not blocked. Rstudio viewer is used if available. See <https://github.com/vnijs/gitgadget> for documentation

```
@importFrom callr r_bg
```

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