Package ‘shinymgr’

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Type Package

Title A Framework for Building, Managing, and Stitching 'shiny'
Modules into Reproducible Workflows

Version 1.1.0

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Description A unifying framework for managing and deploying 'shiny' applications
that consist of modules, where an "app" is a tab-based workflow that guides
a user step-by-step through an analysis. The 'shinymgr' app builder
"stitches" 'shiny' modules together so that outputs from one module serve as
inputs to the next, creating an analysis pipeline that is easy to implement
and maintain. Users of 'shinymgr' apps can save analyses as an RDS file that
fully reproduces the analytic steps and can be ingested into an R Markdown
report for rapid reporting. In short, developers use the 'shinymgr'
framework to write modules and seamlessly combine them into 'shiny' apps, and
users of these apps can execute reproducible analyses that can be
incorporated into reports for rapid dissemination.

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URL https://code.usgs.gov/vtcfwr/0/shinymgr

BugReports https://code.usgs.gov/vtcfwr/shinymgr/-/issues

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**Depends**  R (>= 3.5.0), shiny
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**R topics documented:**

- appReports
- apps
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Sample data for the `shinymgr.sqlite` table, "appReports"

**Description**

Sample data imported to the shinymgr SQLite database by the function `shiny_db_populate`.

**Usage**

```r
data(demo_data)
```

**Format**

A data frame with 3 observations on the following 3 variables.

**Details**

Reports are added to the shinymgr.sqlite database via the "Add "Reports" menu in shinymgr's Developer section.

**Fields**

- `fkAppName` References an appName from the "apps" table.
- `fkReportName` Reference a report from the "reports" table.
- `notes` Notes about a report for a given app.

**See Also**

Other data: `appStitching`, `appTabs`, `apps`, `modFunctionArguments`, `modFunctionReturns`, `modPackages`, `modules`, `reports`, `tabModules`, `tabs`

**Examples**

```r
# read in the demo data
data("demo_data")

# look at the structure
str(appReports)
```
Sample data for the shinymgr.sqlite table, "apps"

Description

Sample data imported to the shinymgr SQLite database by the function `shiny_db_populate`.

Usage

```r
data(demo_data)
```

Format

A data frame with 3 observations on the following 10 variables.

Details

New records to the "apps" table are added to the shinymgr.sqlite database via the "App Builder" interface within shinymgr's Developer section.

Fields

- `pkAppName`  Name of the app; primary key.
- `appDisplayName`  Name that is displayed on app.
- `appDescription`  A description of the app.
- `appVideoURL`  A link to a video if desired.
- `appCSS`  The css file to style the app.
- `appNotes`  Developer notes about the app.
- `appActive`  Logical. Is the app active?
- `fkParentAppName`  References previous version of app.
- `appCitation`  The official citation of the app.

See Also

Other data: `appReports`, `appStitching`, `appTabs`, `modFunctionArguments`, `modFunctionReturns`, `modPackages`, `modules`, `reports`, `tabModules`, `tabs`

Examples

```r
# read in the demo data
data(demo_data)

# look at the structure
str(apps)
```
**Description**

Sample data imported to the shinymgr SQLite database by the function `shiny_db_populate`.

**Usage**

data(demo_data)

**Format**

A data frame with 30 observations on the following 6 variables.

**Details**

appStitching records are added to the shinymgr.sqlite database via the "App Builder" interface within shinymgr's Developer section.

**Fields**

- **pkStitchID**: Auto-number primary key.
- **fkAppName**: References pkAppName in the "apps" table.
- **fkInstanceID**: References pkInstanceID in the "tabModules" table.
- **fkModArgID**: Reference pkModArgID in the "modFunctionArguments" table.
- **fkModReturnID**: Reference pkModReturnID in the "modFunctionReturns" table.
- **fkStitchID**: References the stitch that precedes a given stitch (record).

**See Also**

Other data: `appReports`, `appTabs`, `apps`, `modFunctionArguments`, `modFunctionReturns`, `modPackages`, `modules`, `reports`, `tabModules`, `tabs`

**Examples**

```r
# read in the demo data
data("demo_data")

# look at the structure
str(appStitching)
```
Sample data for the shinymgr.sqlite table, "appTabs"

**Description**

Sample data imported to the shinymgr SQLite database by the function *shiny_db Populate*.

**Usage**

data(demo_data)

**Format**

A data frame with 9 observations on the following 3 variables.

**Details**

Records to the "appTabs" table are added to the shinymgr.sqlite database via the "App Builder" interface within shinymgr's Developer section.

**Fields**

- *fkTabName* References pkTabName in the "tabs" table.
- *fkAppName* References pkAppName in the "apps" table.
- *tabOrder* Specifies the order of tabs as presented to user.

**See Also**

Other data: *appReports, appStitching, apps, modFunctionArguments, modFunctionReturns, modPackages, modules, reports, tabModules, tabs*

**Examples**

```r
# read in the demo data
data(demo_data)

# look at the structure
str(appTabs)
```
check_mod_info

Compares mod header information to the database

Description
This function checks that mod header information matches what’s in the database to ensure that modules will be called and stitched correctly.

Usage
check_mod_info(modName, shinyMgrPath, verbose = TRUE)

Arguments
- modName: The name of the module
- shinyMgrPath: The path to the shinymgr folder.
- verbose: Whether to print updates to the console (default = TRUE)

Value
A list containing dataframes of logicals indicating whether fields are consistent between the module script header and the database. These include: 1. Data for the modules table 2. Data for the modFunctionArguments table 3. Data for the modFunctionReturns table A value of TRUE indicates that the fields match, and FALSE indicates a mismatch.

More Info
The check_mod_info() function is described in the "shinymgr_modules" tutorial.

Tutorials
The shinymgr learnr tutorials include, in order:
1. `learnr::run_tutorial(name = "intro", package = "shinymgr")`
2. `learnr::run_tutorial(name = "shiny", package = "shinymgr")`
3. `learnr::run_tutorial(name = "modules", package = "shinymgr")`
4. `learnr::run_tutorial(name = "app_modules", package = "shinymgr")`
5. `learnr::run_tutorial(name = "tests", package = "shinymgr")`
6. `learnr::run_tutorial(name = "shinymgr", package = "shinymgr")`
7. `learnr::run_tutorial(name = "database", package = "shinymgr")`
8. `learnr::run_tutorial(name = "shinymgr_modules", package = "shinymgr")`
9. `learnr::run_tutorial(name = "apps", package = "shinymgr")`
10. `learnr::run_tutorial(name = "analyses", package = "shinymgr")`
11. `learnr::run_tutorial(name = "reports", package = "shinymgr")`
12. `learnr::run_tutorial(name = "deployment", package = "shinymgr")`
See Also

Other module: `mod_header_parser()`, `mod_init()`, `mod_register()`

Examples

```r
# establish shinyMgrPath
parentPath <- tempdir()
shinyMgrPath <- paste0(parentPath, '/shinymgr')

# Create a demo database
shinymgr_setup(parentPath = parentPath, demo = TRUE)

# check info for different modules
cHECK_mod_info(modName = "subset_rows", shinyMgrPath = shinyMgrPath)
cHECK_mod_info(modName = "add_noise", shinyMgrPath = shinyMgrPath)

# Remove demo database
unlink(shinyMgrPath, recursive = TRUE)
```

---

**delete_app**

*Deletes an app from the database*

**Description**

Deletes an app (and associated files if requested) from the shinymgr.sqlite database

**Usage**

```r
delete_app(appName, shinyMgrPath, fileDelete = FALSE)
```

**Arguments**

- `appName` The name of the app to be deleted
- `shinyMgrPath` The path to the shinymgr project. Typically the working directory.
- `fileDelete` TRUE/FALSE, whether the app script should also be deleted - defaults to FALSE.

**Value**

An integer value with the total number of rows deleted (including cascades)

**More Info**

The `delete_app()` function is described in the "app_modules" tutorial.
Tutorials

The shinymgr learnr tutorials include, in order:

1. `learnr::run_tutorial(name = "intro", package = "shinymgr")`
2. `learnr::run_tutorial(name = "shiny", package = "shinymgr")`
3. `learnr::run_tutorial(name = "modules", package = "shinymgr")`
4. `learnr::run_tutorial(name = "app_modules", package = "shinymgr")`
5. `learnr::run_tutorial(name = "tests", package = "shinymgr")`
6. `learnr::run_tutorial(name = "shinymgr", package = "shinymgr")`
7. `learnr::run_tutorial(name = "database", package = "shinymgr")`
8. `learnr::run_tutorial(name = "shinymgr_modules", package = "shinymgr")`
9. `learnr::run_tutorial(name = "apps", package = "shinymgr")`
10. `learnr::run_tutorial(name = "analyses", package = "shinymgr")`
11. `learnr::run_tutorial(name = "reports", package = "shinymgr")`
12. `learnr::run_tutorial(name = "deployment", package = "shinymgr")`

References

[https://code.usgs.gov/vtcfwru/shinymgr](https://code.usgs.gov/vtcfwru/shinymgr)

See Also

Other delete: `delete_mod()`, `delete_report()`

---

**delete_mod**

*Deletes a module from the database*

**Description**

Deletes a module (and associated files if requested) from the shinymgr.sqlite database

**Usage**

```r
delete_mod(modName, shinyMgrPath, fileDelete = FALSE, verbose = TRUE)
```

**Arguments**

- `modName` - The name of the module to be deleted, character string.
- `shinyMgrPath` - The path to the shinymgr project. Typically the working directory.
- `fileDelete` - TRUE/FALSE, whether the module script should also be deleted - defaults to FALSE.
- `verbose` - Whether to print updates to the console (default = TRUE)
**Value**

An integer value with the total number of rows deleted (including cascades)

**More Info**

The `delete_mod()` function is described in the "shinymgr_modules" tutorial.

**Tutorials**

The shinymgr learnr tutorials include, in order:

1. `learnr::run_tutorial(name = "intro", package = "shinymgr")`
2. `learnr::run_tutorial(name = "shiny", package = "shinymgr")`
3. `learnr::run_tutorial(name = "modules", package = "shinymgr")`
4. `learnr::run_tutorial(name = "app_modules", package = "shinymgr")`
5. `learnr::run_tutorial(name = "tests", package = "shinymgr")`
6. `learnr::run_tutorial(name = "shinymgr", package = "shinymgr")`
7. `learnr::run_tutorial(name = "database", package = "shinymgr")`
8. `learnr::run_tutorial(name = "shinymgr_modules", package = "shinymgr")`
9. `learnr::run_tutorial(name = "apps", package = "shinymgr")`
10. `learnr::run_tutorial(name = "analyses", package = "shinymgr")`
11. `learnr::run_tutorial(name = "reports", package = "shinymgr")`
12. `learnr::run_tutorial(name = "deployment", package = "shinymgr")`

**References**

https://code.usgs.gov/vtcfwru/shinymgr

**See Also**

Other delete: `delete_app()`, `delete_report()`

---

**delete_report**

*Deletes a report from the database*

**Description**

Deletes a report (and associated file if requested) from the shinymgr.sqlite database

**Usage**

`delete_report(reportName, shinyMgrPath, fileDelete = FALSE)`
Arguments

- **reportName**: The name of the report to be deleted, character string.
- **shinyMgrPath**: The path to the shinymgr project. Typically the working directory.
- **fileDelete**: TRUE/FALSE, whether the report .Rmd file should also be deleted - defaults to FALSE.

Value

An integer value with the total number of rows deleted (including cascades)

More Info

The `delete_report()` function is described in the "reports" tutorial.

Tutorials

The shinymgr learnr tutorials include, in order:

1. `learnr::run_tutorial(name = "intro", package = "shinymgr")`
2. `learnr::run_tutorial(name = "shiny", package = "shinymgr")`
3. `learnr::run_tutorial(name = "modules", package = "shinymgr")`
4. `learnr::run_tutorial(name = "app_modules", package = "shinymgr")`
5. `learnr::run_tutorial(name = "tests", package = "shinymgr")`
6. `learnr::run_tutorial(name = "shinymgr", package = "shinymgr")`
7. `learnr::run_tutorial(name = "database", package = "shinymgr")`
8. `learnr::run_tutorial(name = "shinymgr_modules", package = "shinymgr")`
9. `learnr::run_tutorial(name = "apps", package = "shinymgr")`
10. `learnr::run_tutorial(name = "analyses", package = "shinymgr")`
11. `learnr::run_tutorial(name = "reports", package = "shinymgr")`
12. `learnr::run_tutorial(name = "deployment", package = "shinymgr")`

References

https://code.usgs.gov/vtcfwru/shinymgr

See Also

Other delete: `delete_app()`, `delete_mod()`
launch_shinymgr

Launch the master app for shinymgr

Description
Launches the master app for shinymgr

Usage
launch_shinymgr(shinyMgrPath, ...)

Arguments
shinyMgrPath  Filepath to the main shinymgr folder.
...  Additional arguments to be passed to the app.

Value
No return value, function launches shiny app

More Info
The launch_shinymgr() function is described in the "shinymgr" tutorial.

Tutorials
The shinymgr learnr tutorials include, in order:
1. learnr::run_tutorial(name = "intro", package = "shinymgr")
2. learnr::run_tutorial(name = "shiny", package = "shinymgr")
3. learnr::run_tutorial(name = "modules", package = "shinymgr")
4. learnr::run_tutorial(name = "app_modules", package = "shinymgr")
5. learnr::run_tutorial(name = "tests", package = "shinymgr")
6. learnr::run_tutorial(name = "shinymgr", package = "shinymgr")
7. learnr::run_tutorial(name = "database", package = "shinymgr")
8. learnr::run_tutorial(name = "shinymgr_modules", package = "shinymgr")
9. learnr::run_tutorial(name = "apps", package = "shinymgr")
10. learnr::run_tutorial(name = "analyses", package = "shinymgr")
11. learnr::run_tutorial(name = "reports", package = "shinymgr")
12. learnr::run_tutorial(name = "deployment", package = "shinymgr")

References
https://code.usgs.gov/vtcfwrus/shinymgr
Examples

```r
## Only run this example in interactive R sessions
if (interactive()) {

# set the directory path that will house the shinymgr project
parentPath <- tempdir()
shinyMgrPath <- paste0(parentPath, '/shinymgr')

# set up raw directories and fresh database
shinymgr_setup(parentPath, demo = TRUE)

# The shiny app
launch_shinymgr(shinyMgrPath)

# Accepts args to shiny::runApp
launch_shinymgr(shinyMgrPath, quiet = TRUE)

# remove demo
unlink(shinyMgrPath, recursive = TRUE)
}
```

---

**modFunctionArguments**  
*Sample data for the shinymgr.sqlite table, "modFunctionArguments"*

**Description**

Sample data imported to the shinymgr SQLite database by the function `shiny_db_populate`.

**Usage**

```r
data(demo_data)
```

**Format**

A data frame with 6 observations on the following 5 variables.

**Details**

New records to "modFunctionArguments" table are added to the shinymgr.sqlite database via the `mod_register` function.
Fields

- **pkModArgID**: Auto-number primary key.
- **fkModuleName**: References pkModuleName in the "modules" table.
- **functionArgName**: Name of the argument.
- **functionArgClass**: Class of the argument (e.g., data.frame)
- **description**: Description of the argument.

See Also

- Other data: `appReports`, `appStitching`, `appTabs`, `apps`, `modFunctionReturns`, `modPackages`, `modules`, `reports`, `tabModules`, `tabs`

Examples

```r
# read in the demo data
data(demo_data)

# look at the structure
str(modFunctionArguments)
```

Description

Sample data imported to the shinymgr SQLite database by the function `shiny_db_populate`.

Usage

```r
data(demo_data)
```

Format

A data frame with 6 observations on the following 5 variables.

Details

New records to "modFunctionReturns" table are added to the shinymgr.sqlite database via the `mod_register` function.
**modPackages**

**Fields**

- pkModReturnID  References pkModuleName in the "modules" table.
- fkModuleName  References pkModuleName in the "modules" table.
- functionReturnName  Name of the return.
- functionReturnClass  Class of the return (e.g., data.frame)
- description  Description of the return.

**See Also**

Other data: appReports, appStitching, appTabs, apps, modFunctionArguments, modPackages, modules, reports, tabModules, tabs

**Examples**

```r
# read in the demo data
data(demo_data)

# look at the structure
str(modFunctionReturns)
```

---

**modPackages**  
*Sample data for the shinymgr.sqlite table, "modPackages"*

**Description**

Sample data imported to the shinymgr SQLite database by the function `shiny_db_populate`.

**Usage**

```r
data(demo_data)
```

**Format**

A data frame with 2 observations on the following 4 variables.

**Details**

New records to "modPackages" table are added to the shinymgr.sqlite database via the `mod_register` function.
Fields

fkModuleName  References pkModuleName in the "modules" table.
packageName Name of the R package
version  Version of the package.
notes  Notes about the package.

See Also

Other data: appReports, appStitching, appTabs, apps, modFunctionArguments, modFunctionReturns, modules, reports, tabModules, tabs

Examples

# read in the demo data
data(demo_data)

# look at the structure
str(modPackages)

modules  Sample data for the shinymgr.sqlite table, "modules"

Description

Sample data imported to the shinymgr SQLite database by the function shiny_db_populate.

Usage

data(demo_data)

Format

A data frame with 8 observations on the following 7 variables.

Details

New records to "modules" table are added to the shinymgr.sqlite database via the mod_register function.
mod_header_parser

Fields

pkModuleName  Name of a module; primary key.
modDisplayName Name displayed on the module.
modDescription Description of the module.
modCitation Citation of the module.
modNotes  Notes on the module.
modActive Logical. Is the module still active?
dateCreated Date the module was created.

See Also

Other data: appReports, appStitching, appTabs, apps, modFunctionArguments, modFunctionReturns, modPackages, reports, tabModules, tabs

Examples

# read in the demo data
data(demo_data)

# look at the structure
str(modules)

mod_header_parser  Parse the header of module modules to add to the database

Description

This is a helper function that parses the header of modules to pending addition to the shinymgr.sqlite database. This is used as a helper function by mod_register and check_mod_info to convert the data in headers into dataframes.

Usage

mod_header_parser(filePath)

Arguments

filePath  The file path to the R module script to be added.

Value

A list containing dataframes that can be used to update the shinyMgr database. These include:
1. Data for the modules table
2. Data for updating the modFunctionArguments table
3. Data for updating the modFunctionReturns table
mod_init

See Also

Other module: check_mod_info(), mod_init(), mod_register()

Examples

```r
# establish the path to a built-in shinymgr module
filePath <- file.path(find.package('shinymgr'), 'shinymgr/modules/poly_fit.R')

# Parse the header and return associated data as a list of dataframes.
data_to_add <- mod_header_parser(filePath)

# look at the result
str(data_to_add)
```

---

```
mod_init

Creates an R script that contains a framework for developing a new module
```

Description

Creates an R script that contains a framework for developing a new module

Usage

```r
mod_init(modName, author, shinyMgrPath)
```

Arguments

- `modName`: The name of the module to be added to the modules table of the shinymgr.sqlite database. The function will write an R script as modName.R
- `author`: A string with the author's name, formatted as "Lastname, Firstname".
- `shinyMgrPath`: The path to the shinymgr project. Typically the working directory.

Value

Invisible. The function will write an R script with the name modName.R and store the file in the shinymgr project’s modules folder.

More Info

The mod_init() function is described in the "shinymgr_modules" tutorial.
Tutorials

The shinymgr learnr tutorials include, in order:

1. learnr::run_tutorial(name = "intro", package = "shinymgr")
2. learnr::run_tutorial(name = "shiny", package = "shinymgr")
3. learnr::run_tutorial(name = "modules", package = "shinymgr")
4. learnr::run_tutorial(name = "app_modules", package = "shinymgr")
5. learnr::run_tutorial(name = "tests", package = "shinymgr")
6. learnr::run_tutorial(name = "shinymgr", package = "shinymgr")
7. learnr::run_tutorial(name = "database", package = "shinymgr")
8. learnr::run_tutorial(name = "shinymgr_modules", package = "shinymgr")
9. learnr::run_tutorial(name = "apps", package = "shinymgr")
10. learnr::run_tutorial(name = "analyses", package = "shinymgr")
11. learnr::run_tutorial(name = "reports", package = "shinymgr")
12. learnr::run_tutorial(name = "deployment", package = "shinymgr")

References

https://code.usgs.gov/vtcfwr/shinymgr

See Also

Other module: check_mod_info(), mod_header_parser(), mod_register()

Examples

```r
## Only run this example in interactive R sessions
if (interactive()) {

# set the file path to the main shinymgr directory
parentPath <- tempdir()
shinyMgrPath <- paste0(parentPath, "/shinymgr")

shinymgr_setup(parentPath = parentPath, demo = FALSE)

mod_init(
  modName = "my_test_mod",
  author = "Baggins, Bilbo",
  shinyMgrPath = shinyMgrPath
)

# the file should be located in the shinymgr/modules directory
fp <- paste0(shinyMgrPath, "/modules/my_test_mod.R")

# determine if the file exists
file.exists(fp)
```
mod_register

Register (inserts) a new module into the shinymgr project

Description

Insert a new record into the shinymgr.sqlite database table "modules" and accompanying tables ("modFunctionArguments", "modFunctionReturns", "modPackages")

Usage

mod_register(modName, shinyMgrPath)

Arguments

modName Name of the new module
shinyMgrPath Directory that holds the main shinymgr project

Details

This function reads in a module file created by mod_init and parses the header using mod_header_parser to populate the modules, modFunctionArguments, modFunctionReturns, and modPackages tables of the shinymgr.sqlite database. These tables are referenced in the app builder, so module headers must match the module functions exactly.

Value

Nothing. Records are inserted into shinymgr.sqlite.

More Info

The mod_register() function is described in the "shinymgr_modules" tutorial.
Tutorials

The shinymgr learnr tutorials include, in order:

1. `learnr::run_tutorial(name = "intro", package = "shinymgr")`
2. `learnr::run_tutorial(name = "shiny", package = "shinymgr")`
3. `learnr::run_tutorial(name = "modules", package = "shinymgr")`
4. `learnr::run_tutorial(name = "app_modules", package = "shinymgr")`
5. `learnr::run_tutorial(name = "tests", package = "shinymgr")`
6. `learnr::run_tutorial(name = "shinymgr", package = "shinymgr")`
7. `learnr::run_tutorial(name = "database", package = "shinymgr")`
8. `learnr::run_tutorial(name = "shinymgr_modules", package = "shinymgr")`
9. `learnr::run_tutorial(name = "apps", package = "shinymgr")`
10. `learnr::run_tutorial(name = "analyses", package = "shinymgr")`
11. `learnr::run_tutorial(name = "reports", package = "shinymgr")`
12. `learnr::run_tutorial(name = "deployment", package = "shinymgr")`

References

https://code.usgs.gov/vtcfwru/shinymgr

See Also

`mod_init`

Other module: `check_mod_info()`, `mod_header_parser()`, `mod_init()`

---

**qry_app_flow**

Retrieve structure of an app module

Description

Returns a dataframe showing the ordered layout of a shinymgr app (e.g., tabs, modules, and the order of presentation).

Usage

```r
qry_app_flow(appName, shinyMgrPath)
```

Arguments

- `appName` The name of the app in the shinymgr database (e.g. iris_explorer)
- `shinyMgrPath` File path to the main shiny manager project directory
**qry_app_flow**

**Value**

Dataframe consisting of the specified rows and columns

**More Info**

The `qry_app_flow()` function is described in the "app_modules" tutorial.

**Tutorials**

The shinymgr learnt tutorials include, in order:

1. `learnr::run_tutorial(name = "intro", package = "shinymgr")`
2. `learnr::run_tutorial(name = "shiny", package = "shinymgr")`
3. `learnr::run_tutorial(name = "modules", package = "shinymgr")`
4. `learnr::run_tutorial(name = "app_modules", package = "shinymgr")`
5. `learnr::run_tutorial(name = "tests", package = "shinymgr")`
6. `learnr::run_tutorial(name = "shinymgr", package = "shinymgr")`
7. `learnr::run_tutorial(name = "database", package = "shinymgr")`
8. `learnr::run_tutorial(name = "shinymgr_modules", package = "shinymgr")`
9. `learnr::run_tutorial(name = "apps", package = "shinymgr")`
10. `learnr::run_tutorial(name = "analyses", package = "shinymgr")`
11. `learnr::run_tutorial(name = "reports", package = "shinymgr")`
12. `learnr::run_tutorial(name = "deployment", package = "shinymgr")`

**References**

[https://code.usgs.gov/vtcfwru/shinymgr](https://code.usgs.gov/vtcfwru/shinymgr)

**See Also**

Other qry: `qry_app_stitching()`, `qry_insert()`, `qry_mod_info()`, `qry_row()`

**Examples**

```r
# set the file path to the main shinymgr directory
parentPath <- tempdir()
shinyMgrPath <- paste0(parentPath, '/shinymgr')

shinymgr_setup(parentPath = parentPath, demo = TRUE)

# get the structure of the iris_explorer app
qry_app_flow(appName = "iris_explorer", shinyMgrPath = shinyMgrPath)

# remove demo
unlink(shinyMgrPath, recursive = TRUE)
```


qry_app_stitching

Retrieve structure of an app module

Description
Returns a dataframe showing how outputs from one module are "stitched" as inputs to downstream modules in a shinymgr app.

Usage
qry_app_stitching(appName, shinyMgrPath)

Arguments
- appName: The name of the app in the shinymgr database (e.g. iris_explorer)
- shinyMgrPath: File path to the main shiny manager project directory

Value
Dataframe consisting of the specified rows and columns

Tutorials
The shinymgr learnr tutorials include, in order:
1. learnr::run_tutorial(name = "intro", package = "shinymgr")
2. learnr::run_tutorial(name = "shiny", package = "shinymgr")
3. learnr::run_tutorial(name = "modules", package = "shinymgr")
4. learnr::run_tutorial(name = "app_modules", package = "shinymgr")
5. learnr::run_tutorial(name = "tests", package = "shinymgr")
6. learnr::run_tutorial(name = "shinymgr", package = "shinymgr")
7. learnr::run_tutorial(name = "database", package = "shinymgr")
8. learnr::run_tutorial(name = "shinymgr_modules", package = "shinymgr")
9. learnr::run_tutorial(name = "apps", package = "shinymgr")
10. learnr::run_tutorial(name = "analyses", package = "shinymgr")
11. learnr::run_tutorial(name = "reports", package = "shinymgr")
12. learnr::run_tutorial(name = "deployment", package = "shinymgr")

References
https://code.usgs.gov/vtcfwru/shinymgr

See Also
Other qry: qry_app_flow(), qry_insert(), qry_mod_info(), qry_row()
Examples

# set the file path to the main shinymgr directory
parentPath <- tempdir()
shinymgrPath <- paste0(parentPath, '/shinymgr')

shinymgr_setup(parentPath = parentPath, demo = TRUE)

# get the structure of the iris_explorer app
qry_app_stitching(appName = "iris_explorer", shinyMgrPath = shinymgrPath)

# remove demo
unlink(shinymgrPath, recursive = TRUE)

qry_mod_info

Retrieve general information about a module

Description
Returns a dataframe showing a given module’s arguments, returns, and package dependencies.

Usage

qry_mod_info(modName, shinyMgrPath)

Arguments

modName The name of the mod in the shinymgr database (e.g. subset_rows)
shinyMgrPath File path to the main shiny manager project directory

Value
Dataframe consisting of the specified rows and columns

Tutorials
The shinymgr learnr tutorials include, in order:

1. learnr::run_tutorial(name = "intro", package = "shinymgr")
2. learnr::run_tutorial(name = "shiny", package = "shinymgr")
3. learnr::run_tutorial(name = "modules", package = "shinymgr")
4. learnr::run_tutorial(name = "app_modules", package = "shinymgr")
5. learnr::run_tutorial(name = "tests", package = "shinymgr")
6. learnr::run_tutorial(name = "shinymgr", package = "shinymgr")
7. learnr::run_tutorial(name = "database", package = "shinymgr")
qry_row

Retrieve one or more rows from a specified table from the shinymgr.sqlite. Used internally. database given a set of conditions on one or more columns.

Description

Returns dataframe containing specified columns and rows from the shinymgr database based on specified conditions.

Usage

=query_row(tableName, rowConditions, colConditions, shinyMgrPath)
Arguments

tableName - The name of the table of the shinymgr database (e.g. people, apps, etc.).
rowConditions - A dataframe where the keys correspond to columns of the specified dataframe and key values correspond to the equality condition that must be satisfied by any returning rows, else returns all rows (default returns all rows).
colConditions - A vector specifying the names of columns to be returned from the query (default returns all columns).
shinyMgrPath - File path to the main shiny manager project directory

Value

Dataframe consisting of the specified rows and columns

Tutorials

The shinymgr learnr tutorials include, in order:
1. learnr::run_tutorial(name = "intro", package = "shinymgr")
2. learnr::run_tutorial(name = "shiny", package = "shinymgr")
3. learnr::run_tutorial(name = "modules", package = "shinymgr")
4. learnr::run_tutorial(name = "app_modules", package = "shinymgr")
5. learnr::run_tutorial(name = "tests", package = "shinymgr")
6. learnr::run_tutorial(name = "shinymgr", package = "shinymgr")
7. learnr::run_tutorial(name = "database", package = "shinymgr")
8. learnr::run_tutorial(name = "shinymgr_modules", package = "shinymgr")
9. learnr::run_tutorial(name = "apps", package = "shinymgr")
10. learnr::run_tutorial(name = "analyses", package = "shinymgr")
11. learnr::run_tutorial(name = "reports", package = "shinymgr")
12. learnr::run_tutorial(name = "deployment", package = "shinymgr")

References

https://code.usgs.gov/vtcfwru/shinymgr

See Also

Other qry: qry_app_flow(), qry_app_stitching(), qry_insert(), qry_mod_info()

Examples

# set the file path to the main shinymgr directory
parentPath <- tempdir()
shinyMgrPath <- paste0(parentPath, '/shinymgr')

shinymgr_setup(parentPath = parentPath, demo = TRUE)
# use the default database path
qry_row(
  tableName = 'apps',
  rowConditions = data.frame(pkAppName = 'iris_explorer'),
  colConditions = c('appDisplayName', 'appDescription'),
  shinyMgrPath = shinyMgrPath
)

# remove demo
unlink(shinyMgrPath, recursive = TRUE)

---

**reports**  
*Sample data for the shinymgr.sqlite table, “reports”*

**Description**

Sample data imported to the shinymgr SQLite database by the function `shiny_db_populate`.

**Usage**

data(demo_data)

**Format**

A data frame with 3 observations on the following 3 variables.

**Details**

Reports are added to the shinymgr.sqlite database via the "Add "Reports" menu in shinymgr’s Developer section.

**Fields**

- **pkReportName**  Name of the report; primary key.
- **displayName**  Display name of the report.
- **reportDescription**  Description of the report.

**See Also**

Other data: `appReports`, `appStitching`, `appTabs`, `apps`, `modFunctionArguments`, `modFunctionReturns`, `modPackages`, `modules`, `tabModules`, `tabs`
rerun_analysis

Examples

# read in the demo data
data(demo_data)

# look at the structure
str(reports)

rerun_analysis  Re-run an previously executed shinymgr analysis

Description

Re-run an previously executed shinymgr analysis given an RDS file input from a previously saved analysis.

Usage

rerun_analysis(analysis_path)

Arguments

analysis_path  File path to the RDS file that stores a previously executed analysis.

Details

The function accepts a single argument that defines the file path to a saved shinymgr analysis (RDS file). This function will launch a shiny app, so can only be run during an interactive R session, in an R session with no other shiny apps running.

The app that is launched contains 2 tabs. The first tab is called "The App" and will be visible when the re-run function is called. It contains a header with the app’s name and a subheading of "Analysis Rerun". Below that, a disclaimer appears, indicating the app was produced from a saved analysis. You may need to scroll down using the vertical scroll bar in the rendering betlow to see that below this disclaimer is a fully functioning, identical copy of the shiny app used to generate the saved analysis.

The second tab, called "Analysis Summary", simply displays the structure of the saved analysis, excluding any saved source code. The structure of the analysis gives a high-level summary, including the values that can be entered in the app to reproduce results.

Value

No return value, function launches shiny app

More Info

The rerun_analysis() function is described in the "analyses" tutorial.
rerun_analysis

Tutorials

The shinymgr learnr tutorials include, in order:

1. `learnr::run_tutorial(name = "intro", package = "shinymgr")`
2. `learnr::run_tutorial(name = "shiny", package = "shinymgr")`
3. `learnr::run_tutorial(name = "modules", package = "shinymgr")`
4. `learnr::run_tutorial(name = "app_modules", package = "shinymgr")`
5. `learnr::run_tutorial(name = "tests", package = "shinymgr")`
6. `learnr::run_tutorial(name = "shinymgr", package = "shinymgr")`
7. `learnr::run_tutorial(name = "database", package = "shinymgr")`
8. `learnr::run_tutorial(name = "shinymgr_modules", package = "shinymgr")`
9. `learnr::run_tutorial(name = "apps", package = "shinymgr")`
10. `learnr::run_tutorial(name = "analyses", package = "shinymgr")`
11. `learnr::run_tutorial(name = "reports", package = "shinymgr")`
12. `learnr::run_tutorial(name = "deployment", package = "shinymgr")`

References

https://code.usgs.gov/vtcfwru/shinymgr

See Also

Other analysis: `restore_analysis()`

Examples

```r
## Only run this example in interactive R sessions
if (interactive()) {

  # Load the sample analysis from the shinymgr package and re-run it.
  analysis_path <- paste0(
    find.package('shinymgr'),
    '/shinymgr/analyses/iris_explorer_Gandalf_2023_06_05_16_30.RDS'
  )

  # Re-run the sample analysis
  rerun_analysis(analysis_path)
}
```
**Description**

Re-run an previously executed shinymgr analysis given an RDS file input from a previously saved analysis.

**Usage**

```r
restore_analysis(analysis_path)
```

**Arguments**

- `analysis_path`: File path to the RDS file that stores a previously executed analysis.

**Details**

The function accepts a single argument that defines the file path to a saved shinymgr analysis (RDS file). This function will find the lockfile and use it to create a new renv-enabled R project (a folder), that includes the full R library used by the developer when creating the app. The function creates this new project, copies the original RDS file to it, and copies a script that the user can run in an attempt to restore an old shinymgr analysis utilizing the R version and all package versions that the developer used when creating the app.

**Value**

No return value, restores an R environment from a saved analysis

**More Info**

The `restore_analysis()` function is described in the "analyses" tutorial.

**Tutorials**

The shinymgr learnr tutorials include, in order.

1. `learnr::run_tutorial(name = "intro", package = "shinymgr")`
2. `learnr::run_tutorial(name = "shiny", package = "shinymgr")`
3. `learnr::run_tutorial(name = "modules", package = "shinymgr")`
4. `learnr::run_tutorial(name = "app_modules", package = "shinymgr")`
5. `learnr::run_tutorial(name = "tests", package = "shinymgr")`
6. `learnr::run_tutorial(name = "shinymgr", package = "shinymgr")`
7. `learnr::run_tutorial(name = "database", package = "shinymgr")`
8. `learnr::run_tutorial(name = "shinymgr_modules", package = "shinymgr")`
9. `learnr::run_tutorial(name = "apps", package = "shinymgr")
10. `learnr::run_tutorial(name = "analyses", package = "shinymgr")
11. `learnr::run_tutorial(name = "reports", package = "shinymgr")
12. `learnr::run_tutorial(name = "deployment", package = "shinymgr")

References

https://code.usgs.gov/vtcfwru/shinymgr

See Also

Other analysis: `rerun_analysis()

Examples

## Only run this example in interactive R sessions
if (interactive()) {

# Load the sample analysis from the shinymgr package and restore it.

# Get the path for the sample analysis from shinymgr
analysis_path <- paste0(
  find.package('shinymgr'),
  '/shinymgr/analyses/iris_explorer_Gandalf_2023_06_05_16_30.RDS'
)

# confirm file exists
file.exists(analysis_path)

dir_current <- getwd()

# Re-run the sample analysis
restore_analysis(analysis_path)

# A new project will created in the temporary directory that
# includes a script to run within the new renv project
# Rerun the saved analysis from the restored environment:
rerun_analysis('renv_iris_explorer_Gandalf_2023_06_05_16_30.RDS')

# Reset directory and clean-up
setwd(dir_current)
unlink(
  file.path(tempdir(), paste0('renv_', basename(analysis_path))),
  recursive = TRUE
)
Description

'shinymgr' provides a unifying framework for managing and deploying Shiny applications that consist of modules. From the user's perspective, an "app" consists of a series of RShiny tabs that are presented in order, establishing an analysis workflow; results are saved as an RDS file that fully reproduces the analytic steps and can be ingested into an RMarkdown report for rapid reporting. Modules are the basic element in the 'shinymgr' framework; they can be used and re-used across different apps. New "apps" can be created with the 'shinymgr' app builder that "stitches" shiny modules together so that outputs from one module serve as inputs to the next, creating an analysis pipeline that is easy to implement and maintain. In short, developers use the 'shinymgr' framework to write modules and seamlessly combine them into shiny apps, and users of these apps can execute reproducible analyses that can be incorporated into reports for rapid dissemination.

Details

The 'shinymgr' learnr tutorials include, in order:

1. learnr::run_tutorial(name = "intro", package = "shinymgr")
2. learnr::run_tutorial(name = "shiny", package = "shinymgr")
3. learnr::run_tutorial(name = "modules", package = "shinymgr")
4. learnr::run_tutorial(name = "app_modules", package = "shinymgr")
5. learnr::run_tutorial(name = "tests", package = "shinymgr")
6. learnr::run_tutorial(name = "shinymgr", package = "shinymgr")
7. learnr::run_tutorial(name = "database", package = "shinymgr")
8. learnr::run_tutorial(name = "shinymgr_modules", package = "shinymgr")
9. learnr::run_tutorial(name = "apps", package = "shinymgr")
10. learnr::run_tutorial(name = "analyses", package = "shinymgr")
11. learnr::run_tutorial(name = "reports", package = "shinymgr")
12. learnr::run_tutorial(name = "deployment", package = "shinymgr")

Author(s)

Laurence Clarfeld, Caroline Tang, and Therese Donovan

References

https://code.usgs.gov/vtcfwrushinymgr
Shinymgr_setup

See Also

Useful links:

- [https://code.usgs.gov/vtcfwru/shinymgr](https://code.usgs.gov/vtcfwru/shinymgr)

Examples

```r
## Only run this example in interactive R sessions
if (interactive()) {
  # load shinymgr
  library(shinymgr)

  # set the directory path that will house the shinymgr project
  parentPath <- tempdir()
  shinyMgrPath <- paste0(parentPath, '/shinymgr')

  # set up raw directories and fresh database
  shinymgr_setup(parentPath, demo = TRUE)

  # look the file structure
  list.files(path = shinyMgrPath, recursive = FALSE)

  # launch the demo project
  launch_shinymgr(shinymgrPath = shinyMgrPath)

  # remove demo
  unlink(shinyMgrPath, recursive = TRUE)
}
```

---

**shinymgr_setup** Sets up a new *shinymanager* directory structure and database

Description

Create a new *shinymgr* directory structure, database, and master app. If demo == TRUE, the database includes sample data and sample modules are also provided.

Usage

```
shinymgr_setup(parentPath, demo = FALSE)
```
**Arguments**

- **parentPath**
  - Path to the parent directory that will house the *shinymgr* file system. A folder called "shinymgr" will be created under this parent directory. If desired, create an RStudio project associated with the "shinymgr" folder, enabling use of the renv package.

- **demo**
  - TRUE or FALSE. Should the demo modules and demo database be included?

**Details**

`shinymgr_setup` is the primary function to use when starting your own *shinymgr* project. The function’s has two arguments: `parentPath` is the path to a folder that will house the *shinymgr* project (a directory called "shinymgr"). The function will create the main directory, plus 9 subdirectories ("analyses", "data", "database", "tests", "modules", "modules_app", "modules_mgr", "reports", "www"). Directory definitions are provided below. If `demo` = TRUE, these directories will be populated with sample modules and a sample database that can be used to explore the package's functionality. Once you understand the general *shinymgr* framework, you can create as many *shinymgr* projects as you wish by setting `demo` = FALSE.

The `parentPath` argument points to a directory that will house the main *shinymgr* directory, plus 9 subdirectories, along with the main *shinymgr* master app.R (or server.R and ui.R) shiny scripts. Directories of *shinymgr* include:

- **analyses** = stores previously run "app" results as RDS file.
- **data** = holds datasets (RData, csv) that are used by "apps".
- **database** = holds the shinymgr sqlite database, named "shinymgr.sqlite".
- **modules** = holds stand-alone modules that are combined into shinymgr "apps".
- **modules_mgr** = holds modules that are used in the shinymgr main app framework.
- **modules_app** = stores app modules; i.e., a series of modules that are linked into a tabbed workflow.
- **reports** = holds Rmd files that call in previously run analyses to produce an Rmarkdown report.
- **tests** = holds unit testing of modules to ensure everything works.
- **www** = stores all images and css files that are rendered in shiny.

**Value**

Returns a file structure, database, and master app called app.R

**More Info**

The `shinymgr_setup()` function is described in the "shinymgr" tutorial.

**Tutorials**

The shinymgr learnr tutorials include, in order:

1. `learnr::run_tutorial(name = "intro", package = "shinymgr")`
2. `learnr::run_tutorial(name = "shiny", package = "shinymgr")`
3. `learnr::run_tutorial(name = "modules", package = "shinymgr")`
4. `learnr::run_tutorial(name = "app_modules", package = "shinymgr")`
5. `learnr::run_tutorial(name = "tests", package = "shinymgr")`
6. `learnr::run_tutorial(name = "shinymgr", package = "shinymgr")`
7. `learnr::run_tutorial(name = "database", package = "shinymgr")`
8. `learnr::run_tutorial(name = "shinymgr_modules", package = "shinymgr")`
9. `learnr::run_tutorial(name = "apps", package = "shinymgr")`
10. `learnr::run_tutorial(name = "analyses", package = "shinymgr")`
11. `learnr::run_tutorial(name = "reports", package = "shinymgr")`
12. `learnr::run_tutorial(name = "deployment", package = "shinymgr")`

References

https://code.usgs.gov/rtcfrw/shinymgr

See Also

`shiny_db_create`

Examples

```r
# Set up an shinymgr framework in a parent directory
# -------------------------------------------------------------
# set the directory path that will house the shinymgr project
parentPath <- tempdir()
shinyMgrPath <- paste0(parentPath, '/shinymgr')

# set up raw directories and fresh database
shinymgr_setup(parentPath, demo = FALSE)

# verify that the folder structure exists in your specified directory
list.dirs(path = shinyMgrPath, full.names = FALSE, recursive = TRUE)

# look at the files
list.files(path = shinyMgrPath, full.names = FALSE, recursive = TRUE)

# Remove demo database
unlink(shinyMgrPath, recursive = TRUE)
```
shiny_db_create

Create an empty *shinymgr* SQLite database, and populate with demo data if desired.

Description

Create an empty *shinymgr* SQLite database for managing multiple apps and scripts in a common framework. This function is typically not called; instead use `shinymgr_setup`.

Usage

```r
shiny_db_create(db_path, demo)
```

Arguments

- `db_path` Filepath that will house the sqlite database
- `demo` Logical. Should demo data be included?

Details

The *shinymgr* database is a SQLite database. The function uses the R package, RSQLite, to connect the database with R (the package itself contains SQLite, so no external software is needed. Once the connection is made, the function uses database functions from the package, DBI, which in turn can be used to query the database, add records, etc.) This function is not intended to be used. Rather, users should use `shinymgr_setup` to create the database instance that comes with the package. The function is included here so users can inspect the code used to create the database.

Value

Returns a *shinymgr* SQLite database.

Tutorials

The shinymgr learnr tutorials include, in order:

1. `learnr::run_tutorial(name = "intro", package = "shinymgr")`
2. `learnr::run_tutorial(name = "shiny", package = "shinymgr")`
3. `learnr::run_tutorial(name = "modules", package = "shinymgr")`
4. `learnr::run_tutorial(name = "app_modules", package = "shinymgr")`
5. `learnr::run_tutorial(name = "tests", package = "shinymgr")`
6. `learnr::run_tutorial(name = "shinymgr", package = "shinymgr")`
7. `learnr::run_tutorial(name = "database", package = "shinymgr")`
8. `learnr::run_tutorial(name = "shinymgr_modules", package = "shinymgr")`
9. `learnr::run_tutorial(name = "apps", package = "shinymgr")`
10. `learnr::run_tutorial(name = "analyses", package = "shinymgr")`
11. `learnr::run_tutorial(name = "reports", package = "shinymgr")`
12. `learnr::run_tutorial(name = "deployment", package = "shinymgr")`
References

https://code.usgs.gov/vtcfwru/shinymgr

See Also

Other database: shiny_db_populate()

Examples

# Set up an empty database for demonstration and then delete it
# create the database (to be deleted):
db_dir <- tempdir()
db_path <- paste0(db_dir, "/shinymgr.sqlite")
shiny_db_create(  
db_path = db_path,
    demo = TRUE)

# verify that the database exists in your current working directory
file.exists(db_path)

# to work with a database *outside* of a *shinymgr* function,
# load the DBI package first and use RSQLite to set the driver
conx <- DBI::dbConnect(drv = RSQLite::SQLite(), dbname = db_path)

# look at the overall schema
DBI::dbReadTable(conn = conx, "sqlite_master")

# look at the tables in the database
DBI::dbListTables(conx)

# look at fields in table apps
DBI::dbListFields(conx, "apps")

# get more detailed information with a query
DBI::dbGetQuery(conx,  
    statement = "PRAGMA table_info('apps');"
  )

# disconnect from database
DBI::dbDisconnect(conx)

# Delete the test database and remove it from your working directory
unlink(db_path)
shiny_db_populate

*Populates an empty shinymgr.sqlite database with demo data*

**Description**

Populates empty shinymgr.sqlite database with demo data. The learnr tutorials illustrate the shinymgr approach and utilize the demo data. This function is typically not called; instead use `shinymgr_setup`

**Usage**

`shiny_db_populate(conx)`

**Arguments**

- `conx`: A connection to the shinymgr.sqlite database

**Details**

The shinymgr database is a SQLite database. The function uses the R package, RSQLite, to connect the database with R (the package itself contains SQLite, so no external software is needed. Once the connection is made, the function uses database functions from the package, DBI, which in turn can be used to query the database, add records, etc.) This function is not intended to be used. Rather, users should use `shinymgr_setup` to copy the database instance that comes with the package. The function is included here so users can inspect the code used to create the database.

**Value**

Returns invisible, but the shinymgr.sqlite database will be populated.

**Tutorials**

The shinymgr learnr tutorials include, in order:

1. `learnr::run_tutorial(name = "intro", package = "shinymgr")`
2. `learnr::run_tutorial(name = "shiny", package = "shinymgr")`
3. `learnr::run_tutorial(name = "modules", package = "shinymgr")`
4. `learnr::run_tutorial(name = "app_modules", package = "shinymgr")`
5. `learnr::run_tutorial(name = "tests", package = "shinymgr")`
6. `learnr::run_tutorial(name = "shinymgr", package = "shinymgr")`
7. `learnr::run_tutorial(name = "database", package = "shinymgr")`
8. `learnr::run_tutorial(name = "shinymgr_modules", package = "shinymgr")`
9. `learnr::run_tutorial(name = "apps", package = "shinymgr")`
10. `learnr::run_tutorial(name = "analyses", package = "shinymgr")`
11. `learnr::run_tutorial(name = "reports", package = "shinymgr")`
12. `learnr::run_tutorial(name = "deployment", package = "shinymgr")`
# References

https://code.usgs.gov/vtcfwru/shinymgr

## See Also

Other database: shiny_db_create()

## Examples

```r
# Set up an empty database for demonstration and then delete it
# Create the database (to be deleted):
db_dir <- tempdir()
db_path <- paste0(db_dir, "/shinymgr.sqlite")
shiny_db_create(db_path = db_path)

# Verify that the database exists in your current working directory
file.exists(db_path)

# function will populate an empty sqlite database with the RData files
# in the package's data folder
conx <- DBI::dbConnect(drv = RSQLite::SQLite(), dbname = db_path)
shiny_db_populate(conx)

# look at some tables with R coding
DBI::dbReadTable(conx, "apps")
DBI::dbReadTable(conx, "modules")

# disconnect from database
DBI::dbDisconnect(conx)

# Remove demo database
unlink(db_path)
```

---

### tabModules

**Sample data for the shinymgr.sqlite table, "tabModules"**

#### Description

Sample data imported to the shinymgr SQLite database by the function shiny_db_populate.

#### Usage

```r
data(demo_data)
```
Format

A data frame with 10 observations on the following 4 variables.

Details

New records to the "tabModules" table are added to the shinymgr.sqlite database via the "App Builder" interface within shinymgr’s Developer section.

Fields

pkInstanceId  Auto-number primary key.
fkTabName References pkTabID from the "tabs" table.
fkModuleName References pkModuleID from the "module" table.
modOrder Integer. Gives the order in which a module appears in a tab.

See Also

Other data: appReports, appStitching, appTabs, apps, modFunctionArguments, modFunctionReturns, modPackages, modules, reports, tabs

Examples

# read in the demo data
data(demo_data)

# look at the structure
str(tabModules)

tabs Sample data for the shinymgr.sqlite table, "tabs"

Description

Sample data imported to the shinymgr SQLite database by the function shiny_db_populate.

Usage

data(demo_data)

Format

A data frame with 10 observations on the following 4 variables.
Details

New records to the "tabs" table are added to the shinymgr.sqlite database via the "App Builder" interface within shinymgr's Developer section.

Fields

pkTabName  The name of the tab; primary key.
tabDisplayName The name displayed on the tab.
tabInstructions Instructions for the tab.
tabNotes Notes on the tab.

See Also

Other data: appReports, appStitching, appTabs, apps, modFunctionArguments, modFunctionReturns, modPackages, modules, reports, tabModules

Examples

```r
# read in the demo data
data(demo_data)

# look at the structure
str(tabs)
```
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