Package 'shinytabconstructor'

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Title Opinionated Shiny Structure
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Author McClelland Legge <mcclelland.kemp@iriworldwide.com> [aut, cre]</mcclelland.kemp@iriworldwide.com>
Maintainer <mcclelland.kemp@iriworldwide.com></mcclelland.kemp@iriworldwide.com>
Description A package to structure and run shiny code in a way that makes it comprehensible when codebases grow large
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addTab *Create a new tab*

Description

Create a new tab

Usage

```
addTab(name, parent = "ui", active = TRUE, open = TRUE)
```

Arguments

name	A character string. What to call the tab? Cannot start with a number.
parent	A character string. The name of the tab the new parent should go under. Defaults to 'ui' which indicates the tab should be accessible on the top level of the main menu
active	A Boolean. Should the .yaml be initialized to immediately include the tab in the app?
open	A Boolean. Should RStudio attempt to open the tab you just created?

checkDuplicateTabNames

Check the files against naming conventions

Description

Check the files against naming conventions

Usage

```
checkDuplicateTabNames(tocheck = NULL)
```

Arguments

tocheck An optional character vector of names to check against the existing ones

checkNamingConventions

Check the naming conventions of the app files

Description

Check the naming conventions of the app files

Usage

```
checkNamingConventions(files, criteria = "[^a-z0-9_\\.\\/]")
```

Arguments

files A character vector of file names

criteria A regex expression to definite the allowable characters

Value

TRUE

Examples

```
checkNamingConventions(c("01-desc.R", "a.good.name.R", "another_acceptable.name.R"))
```

deleteTab

Remove an existing tab

Description

Remove an existing tab

Usage

```
deleteTab(name, cascade = FALSE)
```

Arguments

name A character string. What to call the tab? Cannot start with a number.

cascade A boolean, should it delete all tabs below it?

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evaluateYAML

Evaluate a YAML list

Description

Evaluate a YAML list

Usage

```
evaluateYAML(yaml_list)
```

Arguments

 $yaml_list$

Value

A list

extractTabName

Extract the tab name from the file name

Description

Extract the tab name from the file name

Usage

```
extractTabName(path)
```

Arguments

path

An .R or .yaml file path

Value

A character string

Examples

```
extractTabName("a.dot.delimited.name.tabname.R")
```

filesInTreeStructure 5

Description

Determine a directory file structure

Usage

```
filesInTreeStructure(file, pattern = NULL)
```

Arguments

file The root directory or file

pattern An optional pattern to filter out directories containing files

Value

A list

findTab

Find an existing tab

Description

Find an existing tab

Usage

findTab(name)

Arguments

name

The name of the tab to find the location for

Value

A filepath of the location of that tab

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getChildTabs

Get the names of the tabs that are nested under a given tab

Description

Get the names of the tabs that are nested under a given tab

Usage

```
getChildTabs(name)
```

Arguments

name

A character string, the name of the tab

Value

A character vector

getExistingTabs

Find the existing tab names

Description

Find the existing tab names

Usage

getExistingTabs()

Value

A character vector

Examples

getExistingTabs()

 ${\tt getServerLocation}$

Find the physical location of the server file within project

Description

Find the physical location of the server file within project

Usage

getServerLocation()

Value

A character string: The fully qualified file path to the server folder

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getTabLocation

Find the physical location of the tabs within the project

Description

Find the physical location of the tabs within the project

Usage

```
getTabLocation()
```

Value

A character string: The fully qualified file path to the tabs folder

includeR

Recursively source R scripts and return the values

Description

Recursively source R scripts and return the values

Usage

```
includeR(path, single_as_list = FALSE, ...)
```

Arguments

path A path to an R script

... Additional argument to list.files

singe_as_list A Boolean. Should a single sourced value be returned as list? Useful for server

functions

Value

A list if more than one file sourced, otherwise the value itself

initTabConstructor

Initialize the framework

Description

Initialize the framework

Usage

```
initTabConstructor()
```

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makeMenu Make a menu from a configured hierarchical list	
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Description

Make a menu from a configured hierarchical list

Usage

```
makeMenu(.list)
```

Arguments

.list A (possibly) nested list of the .yaml files defining a menu structure

Value

A list of html menu objects

menuItemList	Create a menu item

Description

Create a menu item

Usage

```
menuItemList(text, .list, icon = NULL, badgeLabel = NULL,
 badgeColor = "green", tabName = NULL, href = NULL, newtab = TRUE,
  selected = NULL, expandedName = as.character(gsub("[[:space:]]", "",
  text)), startExpanded = FALSE)
```

Arguments

text	Text to show for the menu item.
.list	An optional list of menuSubItems
icon	An icon tag, created by icon. If NULL, don't display an icon.
badgeLabel	A label for an optional badge. Usually a number or a short word like "new".
badgeColor	A color for the badge. Valid colors are listed in validColors.
tabName	The name of a tab that this menu item will activate. Not compatible with href.
href	An link address. Not compatible with tabName.
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newtab If href is supplied, should the link open in a new browser tab?

selected If TRUE, this menuItem or menuSubItem will start selected. If no item have

selected=TRUE, then the first menuItem will start selected.

expandedName A unique name given to each menuItem that serves to indicate which one (if any)

is currently expanded. (This is only applicable to menuItems that have children

and it is mostly only useful for bookmarking state.)

sourceR 9

 $\verb|startExpanded| Should this menuItem| be expanded on app startup? (This is only applicable to$

menuItems that have children, and only one of these can be expanded at any

given time).

id For sidebarMenu, if id is present, this id will be used for a Shiny input value,

and it will report which tab is selected. For example, if id="tabs", then input\$tabs will be the tabName of the currently-selected tab. If you want to be able to book-

mark and restore the selected tab, an id is required.

Details

Exactly the same as menuItem except that the menuSubItems can be passed in a list. All creational credit to the maintainers of that package

sourceR

Source R files to the .GlobalEnv

Description

Source R files to the .GlobalEnv

Usage

sourceR(dir)

Arguments

dir

A directory path

tabItemList

Form a tab structure from one or more tab items

Description

Form a tab structure from one or more tab items

Usage

tabItemList(items)

Arguments

items

One or more tabItem in a list

Value

A html div

10 thisTabName

thisTabName

Get name of tab based on file name

Description

Get name of tab based on file name

Usage

thisTabName()

Value

A character string or NULL

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