Package ‘periscope’

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Type Package

Title Enterprise Streamlined 'Shiny' Application Framework

Version 1.0.4

Description An enterprise-targeted scalable and UI-standardized 'shiny' framework including a variety of developer convenience functions with the goal of both streamlining robust application development while assisting with creating a consistent user experience regardless of application or developer.


BugReports https://github.com/cb4ds/periscope/issues

License GPL-3

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Repository CRAN

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**add_left_sidebar**

Add the left sidebar to an existing application.

Add the left sidebar to an existing application.

**Usage**

```r
add_left_sidebar(location)
```

**Arguments**

- **location** path of the existing application.
**add_reset_button**

Add the reset button to an existing application.

**Description**

Add the reset button to an existing application.

**Usage**

```r
add_reset_button(location)
```

**Arguments**

- `location`: path of the existing application.

---

**add_right_sidebar**

Add the right sidebar to an existing application.

**Description**

Add the right sidebar to an existing application.

**Usage**

```r
add_right_sidebar(location)
```

**Arguments**

- `location`: path of the existing application.

---

**add_ui_body**

Add UI Elements to the Body area

**Description**

This function registers UI elements to the body of the application (the right side). Items are added in the order given.

**Usage**

```r
add_ui_body(elementlist = NULL, append = FALSE)
```
Arguments

- **elementlist**: list of UI elements to add to the body
- **append**: whether to append the elementlist to the currently registered elements or replace the currently registered elements completely

Shiny Usage

Call this function after creating elements in `program/ui_body.R` to register them to the application framework and show them on the body area of the dashboard application.

See Also

- `add_ui_sidebar_basic`
- `add_ui_sidebar_advanced`

Examples

```r
require(shiny)

body1 <- htmlOutput("example1")
body2 <- actionButton("exButton", label = "Example")

add_ui_body(list(body1, body2))
```

Description

This function registers UI elements to the secondary (rear-most) tab on the dashboard sidebar. The default name of the tab is **Advanced** but can be renamed using the `tabname` argument.

Usage

```r
add_ui_sidebar_advanced(
  elementlist = NULL,
  append = FALSE,
  tabname = "Advanced"
)
```

Arguments

- **elementlist**: list of UI elements to add to the sidebar tab
- **append**: whether to append the elementlist to the currently registered elements or replace the currently registered elements completely
- **tabname**: change the label on the UI tab (default = "Advanced")
**Shiny Usage**

Call this function after creating elements in `program/ui_sidebar.R` to register them to the application framework and show them on the Advanced tab in the dashboard sidebar.

**See Also**

- `add_ui_sidebar_basic`
- `add_ui_body`

**Examples**

```r
require(shiny)
s1 <- selectInput("sample1", "A Select", c("A", "B", "C"))
s2 <- radioButtons("sample2", NULL, c("A", "B", "C"))
add_ui_sidebar_advanced(list(s1, s2), append = FALSE)
```

---

**Description**

This function registers UI elements to the primary (front-most) tab on the dashboard sidebar. The default name of the tab is **Basic** but can be renamed using the tabname argument. This tab will be active on the sidebar when the user first opens the shiny application.

**Usage**

```r
add_ui_sidebar_basic(elementlist = NULL, append = FALSE, tabname = "Basic")
```

**Arguments**

- `elementlist` list of UI elements to add to the sidebar tab
- `append` whether to append the `elementlist` to currently registered elements or replace the currently registered elements.
- `tabname` change the label on the UI tab (default = "Basic")

**Shiny Usage**

Call this function after creating elements in `ui_sidebar.R` to register them to the application framework and show them on the Basic tab in the dashboard sidebar.

**See Also**

- `add_ui_sidebar_advanced`
- `add_ui_body`
**Examples**

```r
require(shiny)

s1 <- selectInput("sample1", "A Select", c("A", "B", "C"))
s2 <- radioButtons("sample2", NULL, c("A", "B", "C"))

add_ui_sidebar_basic(list(s1, s2), append = FALSE)
```

---

**add_ui_sidebar_right**  
*Add UI Elements to the Right Sidebar*

**Description**

This function registers UI elements at the right dashboard sidebar. The UI elements to be added depend on the version of shinydashboardPlus in use.

**Usage**

```r
add_ui_sidebar_right(elementlist = NULL, append = FALSE)
```

**Arguments**

- `elementlist`: list of UI elements to add to the sidebar tab
- `append`: whether to append the `elementlist` to the currently registered elements or replace the currently registered elements completely

**Shiny Usage**

Call this function after creating elements in `program/uiSidebar_right.R` to register them to the application framework and show them on the right dashboard sidebar.

**See Also**

- `add_ui_sidebar_basic`
- `add_ui_body`
- `shinydashboardPlusGallery`

**Examples**

```r
## Not run:
require(shiny)
require(shinydashboardPlus)

# shinydashboardPlus changed significantly in version 2.0 and has
# different syntax for the element content, here is an example for each

# shinydashboardPlus < 2.0
```
create_new_application

Create a new templated framework application

Description

Creates ready-to-use templated application files using the periscope framework. The application can be created either empty (default) or with a sample/documented example application.

A running instance of the exact sample application that will be created is hosted here if you would like to see the sample application before creating your own copy.

Usage

create_new_application(
  name,
  location,
  sampleapp = FALSE,
  resetbutton = TRUE,
  rightsidebar = FALSE,
  leftsidebar = TRUE,
  custom_theme_file = NULL
)

Arguments

- **name**: name for the new application and directory
- **location**: base path for creation of name
- **sampleapp**: whether to create a sample shiny application
- **resetbutton**: whether the reset button should be added on the Advanced (left) sidebar.
create_new_application

rightsidebar parameter to set the right sidebar. It can be TRUE/FALSE or a character containing the name of a shiny::icon().

leftsidebar whether the left sidebar should be enabled.

custom_theme_file location of custom theme settings yaml file. Default value is NULL.

Name

The name directory must not exist in location. If the code detects that this directory exists it will abort the creation process with a warning and will not create an application template.

Use only filesystem-compatible characters in the name (ideally w/o spaces)

Directory Structure

name
|-- www (supporting shiny files)
|-- program (user application)
|`-- data (user application data)
|`-- fxn (user application function)
|-- log (log files)

File Information

All user application creation and modifications will be done in the program directory. The names & locations of the framework-provided .R files should not be changed or the framework will fail to work as expected.

name/program/ui_body.R:
Create body UI elements in this file and register them with the framework using a call to add_ui_body

name/program/ui_sidebar.R:
Create sidebar UI elements in this file and register them with the framework using a call to add_ui_sidebar_basic or add_ui_sidebar_advanced

name/program/ui_sidebar_right.R:
Create right sidebar UI elements in this file and register them with the framework using a call to add_ui_sidebar_right

name/program/data directory:
Use this location for data files. There is a .gitignore file included in this directory to prevent accidental versioning of data

name/program/global.R:
Use this location for code that would have previously resided in global.R and for setting application parameters using set_app_parameters. Anything placed in this file will be accessible across all user sessions as well as within the UI context.

name/program/server_global.R:
create_new_application

Use this location for code that would have previously resided in server.R above (i.e. outside of) the call to shinyServer(...). Anything placed in this file will be accessible across all user sessions.

name/program/server_local.R :
Use this location for code that would have previously resided in server.R inside of the call to shinyServer(...). Anything placed in this file will be accessible only within a single user session.

name/www/periscope_style.yaml :
This is the application custom styling yaml file. User can update application different parts style using this file.

Do not modify the following files:

global.R
server.R
ui.R
www/img/loader.gif
www/img/tooltip.png

Right Sidebar

value
FALSE --- no sidebar
TRUE --- sidebar with default icon ('gears').
"table" --- sidebar with table icon. The character string should be a valid "font-awesome" icon.

See Also

shiny:icon()
shinydashboard:dashboardPage()

Examples

# sample app named 'mytestapp' created in a temp dir
create_new_application(name = 'mytestapp', location = tempdir(), sampleapp = TRUE)

# sample app named 'mytestapp' with a right sidebar using a custom icon created in a temp dir
create_new_application(name = 'mytestapp', location = tempdir(), sampleapp = TRUE,
rightsidebar = "table")

# blank app named 'myblankapp' created in a temp dir
create_new_application(name = 'myblankapp', location = tempdir())
# blank app named 'myblankapp' with a green skin created in a temp dir
create_new_application(name = 'myblankapp', location = tempdir())
# blank app named 'myblankapp' without a left sidebar created in a temp dir
create_new_application(name = 'myblankapp', location = tempdir(), leftsidebar = FALSE)
downloadablePlot  downloadablePlot Module

Description

Server-side function for the downloadablePlotUI. This is a custom plot output paired with a linked downloadFile button.

Usage

downloadablePlot(
  ...,  
  logger,  
  filenameroot,  
  aspectratio = 1,  
  downloadfxns = list(),  
  visibleplot  
)

Arguments

...  free parameters list for shiny to pass session variables based on the module call(session, input, output) variables. Note: The first argument of this function must be the ID of the Module’s UI element  
logger  logger to use  
filenameroot  the base text used for user-downloaded file - can be either a character string or a reactive expression returning a character string  
aspectratio  the downloaded chart image width:height ratio (ex: 1 = square, 1.3 = 4:3, 0.5 = 1:2). Where not applicable for a download type it is ignored (e.g. data, html downloads)  
downloadfxns  a named list of functions providing download images or data tables as return values. The names for the list should be the same names that were used when the plot UI was created.  
visibleplot  function or reactive expression providing the plot to display as a return value. This function should require no input parameters.

Notes

When there are no values to download in any of the linked downloadfxns the button will be hidden as there is nothing to download.

Shiny Usage

This function is not called directly by consumers - it is accessed in server.R using the same id provided in downloadablePlotUI:

downloadablePlot(id, logger, filenameroot, downloadfxns, visibleplot)
**downloadablePlotUI**

### See Also

*downloadablePlotUI*

### Examples

```r
# Inside server_local.R

# downloadablePlot("object_id1",
# logger = ss_userAction.Log,
# filenameroot = "mydownload1",
# aspectratio = 1.33,
# downloadfxns = list(png = myplotfxn, tsv = mydatafxn),
# visibleplot = myplotfxn)
```

### Description

Creates a custom plot output that is paired with a linked downloadFile button. This module is compatible with ggplot2, grob and lattice produced graphics.

### Usage

```r
downloadablePlotUI(
  id,
  downloadtypes = c("png"),
  download_hovertext = NULL,
  width = "100%",
  height = "400px",
  btn_halign = "right",
  btn_valign = "bottom",
  btn_overlap = TRUE,
  clickOpts = NULL,
  hoverOpts = NULL,
  brushOpts = NULL
)
```

### Arguments

- **id**: character id for the object
- **downloadtypes**: vector of values for download types
- **download_hovertext**: download button tooltip hover text
- **width**: plot width (any valid css size value)
- **height**: plot height (any valid css size value)
downloadablePlotUI

btn_halign   horizontal position of the download button ("left", "center", "right")
btn_valign   vertical position of the download button ("top", "bottom")
btn_overlap  whether the button should appear on top of the bottom of the plot area to save on vertical space (there is often a blank area where a button can be overlayed instead of utilizing an entire horizontal row for the button below the plot area)
clickOpts    NULL or an object created by the clickOpts function
hoverOpts    NULL or an object created by the hoverOpts function
brushOpts    NULL or an object created by the brushOpts function

Example

downloadablePlotUI("myplotID", c("png", "csv"), "Download Plot or Data", "300px")

Notes

When there is nothing to download in any of the linked downloadfxns the button will be hidden as there is nothing to download.

This module is NOT compatible with the built-in (base) graphics (such as basic plot, etc.) because they cannot be saved into an object and are directly output by the system at the time of creation.

Shiny Usage

Call this function at the place in ui.R where the plot should be placed.

Paired with a call to downloadablePlot(id, ...) in server.R

See Also
downloadablePlot
downloadFileButton
clickOpts
hoverOpts
brushOpts

Examples

# Inside ui_body.R or ui_sidebar.R
downloadablePlotUI("object_id1",
    downloadtypes = c("png", "csv"),
    download_hovertext = "Download the plot and data here!",
    height = "500px",
    btn_halign = "left")
downloadableTable  downloadableTable Module

Description
Server-side function for the downloadableTableUI. This is a custom high-functionality table paired with a linked downloadFile button.

Usage
downloadableTable(
  ...,  
  logger,  
  filenameroot,  
  downloaddatafxns = list(),  
  tabledata,  
  selection = NULL
)

Arguments
... free parameters list to pass table customization options. See example below. 
Note: The first argument of this function must be the ID of the Module’s UI element
logger  logger to use
filenameroot  the base text used for user-downloaded file - can be either a character string or a reactive expression returning a character string
downloaddatafxns  a named list of functions providing the data as return values. The names for the list should be the same names that were used when the table UI was created.
tabledata  function or reactive expression providing the table display data as a return value. This function should require no input parameters.
selection  function or reactive expression providing the row_ids of the rows that should be selected

Details
Generated table can highly customized using function `?DT::datatable` same arguments except for ‘options’ and ‘selection’ parameters.
For ‘options’ user can pass the same `?DT::datatable` options using the same names and values one by one separated by comma.
For ‘selection’ parameter it can be either a function or reactive expression providing the row_ids of the rows that should be selected.
Also, user can apply the same provided `?DT::formatCurrency` columns formats on passed dataset using format functions names as keys and their options as a list.
Value

Reactive expression containing the currently selected rows in the display table

Notes

- When there are no rows to download in any of the linked downloaddatafxns the button will be hidden as there is nothing to download.
- selection parameter has different usage than DT::datatable selection option. See parameters usage section.
- DT::datatable options editable, width and height are not supported

Shiny Usage

This function is not called directly by consumers - it is accessed in server.R using the same id provided in downloadableTableUI:

downloadableTable(id, logger, filenameroot, downloaddatafxns, tabledata, rownames, caption, selection)

Note: calling module server returns the reactive expression containing the currently selected rows in the display table.

See Also

downloadableTableUI

Examples

# Inside server_local.R

# selectedrows <- downloadableTable(
#   "object_id1",
#   logger = ss_userAction.Log,
#   filenameroot = "mydownload1",
#   downloaddatafxns = list(csv = mydatafxn1, tsv = mydatafxn2),
#   tabledata = mydatafxn3,
#   rownames = FALSE,
#   caption = "This is a great table! By: Me",
#   selection = mydataRowIds,
#   colnames = c("Area", "Delta", "Increase"),
#   filter = "bottom",
#   width = "150px",
#   height = "50px",
#   plugins = 'Buttons',
#   buttons = c('copy', 'csv', 'excel', 'pdf', 'print'),
#   editable = TRUE,
#   dom = 'Bfrtip',
#   formatStyle = list(columns = c('Area'), color = 'red'),
#   formatStyle = list(columns = c('Increase'), color = DT::styleInterval(0, c('red', 'green'))),
#   formatCurrency = list(columns = c('Delta'))
# selectedrows is the reactive return value, captured for later use

downloadableTableUI  downloadableTable UI

description

Creates a custom high-functionality table paired with a linked downloadFile button. The table has search and highlight functionality, infinite scrolling, sorting by columns and returns a reactive dataset of selected items.

usage

downloadableTableUI(
  id,
  downloadtypes = c("csv"),
  hoverText = NULL,
  contentHeight = "200px",
  singleSelect = FALSE
)

arguments

id character id for the object
downloadtypes vector of values for data download types
hoverText download button tooltip hover text
contentHeight viewable height of the table (any valid css size value)
singleSelect whether the table should only allow a single row to be selected at a time (FALSE by default allows multi-select).

table features

- Consistent styling of the table
- downloadFile module button functionality built-in to the table
- Ability to show different data from the download data
- Table is automatically fit to the window size with infinite y-scrolling
- Table search functionality including highlighting built-in
- Multi-select built in, including reactive feedback on which table items are selected

example

downloadableTableUI("mytableID", c("csv", "tsv"), "Click Here", "300px")
Notes

When there are no rows to download in any of the linked downloaddatafxns the button will be hidden as there is nothing to download.

Shiny Usage

Call this function at the place in ui.R where the table should be placed.

Paired with a call to downloadableTable(id, ...) in server.R

See Also

downloadableTable
downloadFileButton

Examples

# Inside ui_body.R or ui_sidebar.R
downloadableTableUI("object_id1",
    downloadtypes = c("csv", "tsv"),
    hovertext = "Download the data here!",
    contentHeight = "300px",
    singleSelect = FALSE)

downloadFile

downloadFile Module

Description

Server-side function for the downloadFileButton. This is a custom high-functionality button for file downloads supporting single or multiple download types. The server function is used to provide the data for download.

Usage

downloadFile(..., logger, filenameroot, datafxns = list(), aspectratio = 1)

Arguments

... free parameters list for shiny to pass session variables based on the module call(session, input, output) variables. Note: The first argument of this function must be the ID of the Module’s UI element

logger logger to use

filenameroot the base text used for user-downloaded file - can be either a character string or a reactive expression that returns a character string

datafxns a named list of functions providing the data as return values. The names for the list should be the same names that were used when the button UI was created.
aspectratio  the downloaded chart image width:height ratio (ex: 1 = square, 1.3 = 4:3, 0.5 = 1:2). Where not applicable for a download type it is ignored (e.g. data downloads).

Shiny Usage

This function is not called directly by consumers - it is accessed in server.R using the same id provided in downloadFileButton:

```
downloadFile(id, logger, filenameroot, datafxns)
```

See Also

downloadFileButton
downloadFile_ValidateTypes
downloadFile_AvailableTypes

Examples

```
# Inside server_local.R

# single download type
# downloadFile("object_id1",
#    logger = ss_userAction.Log,
#    filenameroot = "mydownload1",
#    datafxns = list(csv = mydatafxn1),
#    aspectratio = 1)

# multiple download types
# downloadFile("object_id2",
#    logger = ss_userAction.Log,
#    filenameroot = "mytype2",
#    datafxns = list(csv = mydatafxn1, xlsx = mydatafxn2),
#    aspectratio = 1)
```

downloadFileButton  downloadFileButton UI

Description

Creates a custom high-functionality button for file downloads with two states - single download type or multiple-download types. The button image and pop-up menu (if needed) are set accordingly. A tooltip can also be set for the button.

Usage

```
downloadFileButton(id, downloadtypes = c("csv"), hovertext = NULL)
```
Arguments

- **id**  character id for the object
- **downloadtypes**  vector of values for data download types
- **hovertext**  tooltip hover text

Button Features

- Consistent styling of the button, including a hover tooltip
- Single or multiple types of downloads
- Ability to download different data for each type of download

Example

```r
downloadFileUI("mybuttonID1", c("csv", "tsv"), "Click Here")
downloadFileUI("mybuttonID2", "csv", "Click to download")
```

Shiny Usage

Call this function at the place in ui.R where the button should be placed.

It is paired with a call to `downloadFile(id, ...)` in server.R

See Also

- `downloadFile`
- `downloadFile_ValidateTypes`
- `downloadFile_AvailableTypes`

Examples

```r
# Inside ui_body.R or ui_sidebar.R

# single download type
downloadFileButton("object_id1", 
  downloadtypes = c("csv"), 
  hovertext = "Button 1 Tooltip")

# multiple download types
downloadFileButton("object_id2", 
  downloadtypes = c("csv", "tsv"), 
  hovertext = "Button 2 Tooltip")
```
downloadFile_AvailableTypes

downloadFile Helper

Description

Returns a list of all supported types

Usage

downloadFile_AvailableTypes()

Value

a vector of all supported types

See Also

downloadFileButton
downloadFile

downloadFile_ValidateTypes

downloadFile Helper

Description

Checks a given list of file types and warns if an invalid type is included

Usage

downloadFile_ValidateTypes(types)

Arguments

types list of types to test

Value

the list input given in types

Example

downloadFile_ValidateTypes(c("csv", "tsv"))
See Also

downloadFileButton
downloadFile

get_url_parameters  Get URL Parameters

Description

This function returns any url parameters passed to the application as a named list. Keep in mind url parameters are always user-session scoped.

Usage

get_url_parameters(session)

Arguments

session  shiny session object

Value

named list of url parameters and values. List may be empty if no URL parameters were passed when the application instance was launched.

logging-entrypoints  Entry points for logging actions

Description

Generate a log record and pass it to the logging system.

Usage

logdebug(msg, ..., logger = "")
loginfo(msg, ..., logger = "")
logwarn(msg, ..., logger = "")
logerror(msg, ..., logger = "")
Arguments

msg the textual message to be output, or the format for the ... arguments
... if present, msg is interpreted as a format and the ... values are passed to it to form the actual message.
logger the name of the logger to which we pass the record

Details

A log record gets timestamped and will be independently formatted by each of the handlers handling it.

Leading and trailing whitespace is stripped from the final message.

periscope Periscope Shiny Application Framework

Description

This package supports a ui-standardized environment as well as a variety of convenience functions for shiny applications. Base reusable functionality as well as UI paradigms are included to ensure a consistent user experience regardless of application or developer.

Details

A gallery of example apps is hosted at http://periscopeapps.org

Function Overview

Create a new framework application instance:
create_new_application

Set application parameters in program/global.R:
set_app_parameters

Get any url parameters passed to the application:
get_url_parameters

Register user-created UI objects to the requisite application locations:
add_ui_sidebar_basic
add_ui_sidebar_advanced
add_ui_sidebar_right
add_ui_body

Included shiny modules with a customized UI:
downloadFileButton
set_app_parameters

```
downloadableTableUI
downloadablePlotUI

High-functionality standardized tooltips:
ui_tooltip
```

More Information

```
browseVignettes(package = 'periscope')
```

---

remove_reset_button  Remove the reset button from an existing application.

---

Description

Remove the reset button from an existing application.

Usage

```
remove_reset_button(location)
```

Arguments

```
location  path of the existing application.
```

---

set_app_parameters  Set Application Parameters

---

Description

This function sets global parameters customizing the shiny application.

Usage

```
set_app_parameters(
    title,
    titleinfo = NULL,
    loglevel = "DEBUG",
    showlog = TRUE,
    app_version = "1.0.0"
)
```
ui_tooltip

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>title</td>
<td>application title text</td>
</tr>
<tr>
<td>titleinfo</td>
<td>character string, HTML value or NULL</td>
</tr>
<tr>
<td></td>
<td>• A <strong>character</strong> string will be used to set a link target. This means the user will be able to click on the application title and be redirected in a new window to whatever value is given in the string. Any valid URL, File, or other script functionality that would normally be accepted in an <code>&lt;a href=...&gt;</code> tag is allowed.</td>
</tr>
<tr>
<td></td>
<td>• An <strong>HTML</strong> value will be used to as the HTML content for a modal pop-up window that will appear on-top of the application when the user clicks on the application title.</td>
</tr>
<tr>
<td></td>
<td>• Supplying <strong>NULL</strong> will disable the title link functionality.</td>
</tr>
<tr>
<td>loglevel</td>
<td>character string designating the log level to use for the userlog (default = 'DEBUG')</td>
</tr>
<tr>
<td>showlog</td>
<td>enable or disable the visible userlog at the bottom of the body on the application. Logging will still take place, this disables the visible functionality only.</td>
</tr>
<tr>
<td>app_version</td>
<td>character string designating the application version (default = '1.0.0').</td>
</tr>
</tbody>
</table>

Shiny Usage

Call this function from `program/global.R` to set the application parameters.

---

**ui_tooltip**

**Insert a standardized tooltip**

Description

This function inserts a standardized tooltip image, label (optional), and hover text into the application UI.

Usage

`ui_tooltip(id, label = "", text = ")`

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>character id for the tooltip object</td>
</tr>
<tr>
<td>label</td>
<td>text label to appear to the left of the tooltip image</td>
</tr>
<tr>
<td>text</td>
<td>tooltip text shown when the user hovers over the image</td>
</tr>
</tbody>
</table>
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