

Package ‘shinyauthr’

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Type Package

Title 'Shiny' Authentication Modules

Version 1.0.0

Description Add in-app user authentication to 'shiny',
allowing you to secure publicly hosted apps and
build dynamic user interfaces from user information.

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Encoding UTF-8

Imports shiny (>= 1.5.0), shinyjs, dplyr, rlang, sodium, glue

Suggests DBI, RSQLite, lubridate, shinydashboard, testthat (>= 3.0.0),
shinytest, knitr, rmarkdown, covr

RoxygenNote 7.1.1

URL <https://github.com/paulc91/shinyauthr>

BugReports <https://github.com/paulc91/shinyauthr/issues>

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Author Paul Campbell [aut, cre] (<<https://orcid.org/0000-0003-1018-6606>>),
Michael Dewar [ctb]

Maintainer Paul Campbell <pacampbell191@gmail.com>

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login	<i>login server module (deprecated)</i>
-------	---

Description

Deprecated. Use [loginServer](#) instead.

Arguments

input	shiny input
output	shiny output
session	shiny session
data	data frame or tibble containing usernames, passwords and other user data
user_col	bare (unquoted) column name containing usernames
pwd_col	bare (unquoted) column name containing passwords
sodium_hashed	have the passwords been hash encrypted using the sodium package? defaults to FALSE
hashed	Deprecated. shinyauthr now uses the sodium package for password hashing and decryption. If you have previously hashed your passwords with the digest package to use with shinyauthr please re-hash them with sodium for decryption to work.
algo	Deprecated
log_out	[reactive] supply the returned reactive from logout here to trigger a user logout
sessionid_col	bare (unquoted) column name containing session ids
cookie_getter	a function that returns a data.frame with at least two columns: user and session
cookie_setter	a function with two parameters: user and session. The function must save these to a database.
reload_on_logout	should app force reload on logout?

Details

Shiny authentication module for use with [loginUI](#)

Call via `shiny::callModule(shinyauthr::login,"id",...)`

This function is now deprecated in favour of [loginServer](#) which uses shiny's new [moduleServer](#) method as opposed to the [callModule](#) method used by this function. See the [loginServer](#) documentation For details on how to migrate.

Value

The module will return a reactive 2 element list to your main application. First element `user_auth` is a boolean indicating whether there has been a successful login or not. Second element `info` will be the data frame provided to the function, filtered to the row matching the successfully logged in username. When `user_auth` is FALSE `info` is NULL.

Examples

```
## Not run:
user_credentials <- shiny::callModule(
  login,
  id = "login",
  data = user_base,
  user_col = user,
  pwd_col = password,
  log_out = reactive(logout_init())
)

## End(Not run)
```

loginServer

login server module

Description

Shiny authentication module for use with [loginUI](#)

Usage

```
loginServer(
  id,
  data,
  user_col,
  pwd_col,
  sodium_hashed = FALSE,
  log_out = shiny::reactiveVal(),
  reload_on_logout = FALSE,
  cookie_logins = FALSE,
  sessionid_col,
  cookie_getter,
  cookie_setter
)
```

Arguments

id	An ID string that corresponds with the ID used to call the module's UI function
data	data frame or tibble containing user names, passwords and other user data
user_col	bare (unquoted) or quoted column name containing user names
pwd_col	bare (unquoted) or quoted column name containing passwords
sodium_hashed	have the passwords been hash encrypted using the sodium package? defaults to FALSE

log_out	[reactive] supply the returned reactive from <code>logoutServer</code> here to trigger a user logout
reload_on_logout	should app force a session reload on logout?
cookie_logins	enable automatic logins via browser cookies?
sessionid_col	bare (unquoted) or quoted column name containing session ids
cookie_getter	a function that returns a data.frame with at least two columns: user and session
cookie_setter	a function with two parameters: user and session. The function must save these to a database.

Details

This module uses shiny's new `moduleServer` method as opposed to the `callModule` method used by the now deprecated `login` function and must be called differently in your app. For details on how to migrate see the 'Migrating from `callModule` to `moduleServer`' section of [Modularizing Shiny app code](#).

Value

The module will return a reactive 2 element list to your main application. First element `user_auth` is a boolean indicating whether there has been a successful login or not. Second element `info` will be the data frame provided to the function, filtered to the row matching the successfully logged in username. When `user_auth` is FALSE `info` is NULL.

Examples

```
library(shiny)

# dataframe that holds usernames, passwords and other user data
user_base <- dplyr::tibble(
  user = c("user1", "user2"),
  password = c("pass1", "pass2"),
  permissions = c("admin", "standard"),
  name = c("User One", "User Two")
)

ui <- fluidPage(
  # add logout button UI
  div(class = "pull-right", shinyauthr::logoutUI(id = "logout")),
  # add login panel UI function
  shinyauthr::loginUI(id = "login"),
  # setup table output to show user info after login
  tableOutput("user_table")
)

server <- function(input, output, session) {
  # call login module supplying data frame,
  # user and password cols and reactive trigger
  credentials <- shinyauthr::loginServer(
    id = "login",
```

```

    data = user_base,
    user_col = user,
    pwd_col = password,
    log_out = reactive(logout_init())
  )

  # call the logout module with reactive trigger to hide/show
  logout_init <- shinyauthr::logoutServer(
    id = "logout",
    active = reactive(credentials())$user_auth
  )

  output$user_table <- renderTable({
    # use req to only render results when credentials()$user_auth is TRUE
    req(credentials())$user_auth
    credentials()$info
  })
}

if (interactive()) shinyApp(ui = ui, server = server)

```

loginUI

login UI module

Description

Shiny UI Module for use with [loginServer](#)

Usage

```

loginUI(
  id,
  title = "Please log in",
  user_title = "User Name",
  pass_title = "Password",
  login_title = "Log in",
  error_message = "Invalid username or password!",
  additional_ui = NULL,
  cookie_expiry = 7
)

```

Arguments

id	An ID string that corresponds with the ID used to call the module's server function
title	header title for the login panel
user_title	label for the user name text input
pass_title	label for the password text input

login_title	label for the login button
error_message	message to display after failed login
additional_ui	additional shiny UI element(s) to add below login button. Wrap multiple inside shiny::tagList()
cookie_expiry	number of days to request browser to retain login cookie

Value

Shiny UI login panel with user name text input, password text input and login action button.

Examples

```
library(shiny)

# dataframe that holds usernames, passwords and other user data
user_base <- dplyr::tibble(
  user = c("user1", "user2"),
  password = c("pass1", "pass2"),
  permissions = c("admin", "standard"),
  name = c("User One", "User Two")
)

ui <- fluidPage(
  # add logout button UI
  div(class = "pull-right", shinyauthr::logoutUI(id = "logout")),
  # add login panel UI function
  shinyauthr::loginUI(id = "login"),
  # setup table output to show user info after login
  tableOutput("user_table")
)

server <- function(input, output, session) {
  # call login module supplying data frame,
  # user and password cols and reactive trigger
  credentials <- shinyauthr::loginServer(
    id = "login",
    data = user_base,
    user_col = user,
    pwd_col = password,
    log_out = reactive(logout_init())
  )

  # call the logout module with reactive trigger to hide/show
  logout_init <- shinyauthr::logoutServer(
    id = "logout",
    active = reactive(credentials())$user_auth
  )

  output$user_table <- renderTable({
    # use req to only render results when credentials()$user_auth is TRUE
    req(credentials())$user_auth
  })
}
```

```
      credentials()$info
    })
  }

  if (interactive()) shinyApp(ui = ui, server = server)
```

logout

logout server module (deprecated)

Description

Deprecated. Use [logoutServer](#) instead.

Arguments

input	shiny input
output	shiny output
session	shiny session
active	[reactive] supply the returned user_auth boolean reactive from login here to hide/show the logout button

Details

Shiny authentication module for use with [logoutUI](#)

Call via `shiny::callModule(shinyauthr::logout, "id", ...)`

This function is now deprecated in favour of [logoutServer](#) which uses shiny's new [moduleServer](#) method as opposed to the [callModule](#) method used by this function. See the [logoutServer](#) documentation For details on how to migrate.

Value

Reactive boolean, to be supplied as the `log_out` argument of the [login](#) module to trigger the logout process

Examples

```
## Not run:
logout_init <- shiny::callModule(
  logout,
  id = "logout",
  active = reactive(user_credentials())$user_auth
)

## End(Not run)
```

logoutServer *logout server module*

Description

Shiny authentication module for use with [logoutUI](#)

Usage

```
logoutServer(id, active, ...)
```

Arguments

id	An ID string that corresponds with the ID used to call the module's UI function
active	reactive supply the returned user_auth boolean reactive from loginServer here to hide/show the logout button
...	arguments passed to toggle

Details

This module uses shiny's new [moduleServer](#) method as opposed to the [callModule](#) method used by the now deprecated [login](#) function and must be called differently in your app. For details on how to migrate see the 'Migrating from callModule to moduleServer' section of [Modularizing Shiny app code](#).

Value

Reactive boolean, to be supplied as the log_out argument of the [loginServer](#) module to trigger the logout process

Examples

```
library(shiny)

# dataframe that holds usernames, passwords and other user data
user_base <- dplyr::tibble(
  user = c("user1", "user2"),
  password = c("pass1", "pass2"),
  permissions = c("admin", "standard"),
  name = c("User One", "User Two")
)

ui <- fluidPage(
  # add logout button UI
  div(class = "pull-right", shinyauthr::logoutUI(id = "logout")),
  # add login panel UI function
  shinyauthr::loginUI(id = "login"),
  # setup table output to show user info after login
```



```

    tableOutput("user_table")
  )

server <- function(input, output, session) {
  # call login module supplying data frame,
  # user and password cols and reactive trigger
  credentials <- shinyauthr::loginServer(
    id = "login",
    data = user_base,
    user_col = user,
    pwd_col = password,
    log_out = reactive(logout_init())
  )

  # call the logout module with reactive trigger to hide/show
  logout_init <- shinyauthr::logoutServer(
    id = "logout",
    active = reactive(credentials())$user_auth
  )

  output$user_table <- renderTable({
    # use req to only render results when credentials()$user_auth is TRUE
    req(credentials())$user_auth
    credentials()$info
  })
}

if (interactive()) shinyApp(ui = ui, server = server)

```

 logoutUI

logout UI module

Description

Shiny UI Module for use with [logoutServer](#)

Usage

```

logoutUI(
  id,
  label = "Log out",
  icon = NULL,
  class = "btn-danger",
  style = "color: white;"
)

```

Arguments

id	An ID string that corresponds with the ID used to call the module's server function
----	---

label	label for the logout button
icon	An optional icon to appear on the button.
class	bootstrap class for the logout button
style	css styling for the logout button

Value

Shiny UI action button

Examples

```
library(shiny)

# dataframe that holds usernames, passwords and other user data
user_base <- dplyr::tibble(
  user = c("user1", "user2"),
  password = c("pass1", "pass2"),
  permissions = c("admin", "standard"),
  name = c("User One", "User Two")
)

ui <- fluidPage(
  # add logout button UI
  div(class = "pull-right", shinyauthr::logoutUI(id = "logout")),
  # add login panel UI function
  shinyauthr::loginUI(id = "login"),
  # setup table output to show user info after login
  tableOutput("user_table")
)

server <- function(input, output, session) {
  # call login module supplying data frame,
  # user and password cols and reactive trigger
  credentials <- shinyauthr::loginServer(
    id = "login",
    data = user_base,
    user_col = user,
    pwd_col = password,
    log_out = reactive(logout_init())
  )

  # call the logout module with reactive trigger to hide/show
  logout_init <- shinyauthr::logoutServer(
    id = "logout",
    active = reactive(credentials())$user_auth
  )

  output$user_table <- renderTable({
    # use req to only render results when credentials()$user_auth is TRUE
    req(credentials())$user_auth
    credentials()$info
  })
}
```

```
    })  
  }  
  
  if (interactive()) shinyApp(ui = ui, server = server)
```

runExample

Run shinyauthr examples

Description

Launch an example shiny app using shinyauthr authentication modules. Use user1 pass1 or user2 pass2 to login.

Usage

```
runExample(example = c("basic", "shinydashboard", "navbarPage"))
```

Arguments

example The app to launch. Options are "basic", "shinydashboard" or "navbarPage"

Value

No return value, a shiny app is launched.

Examples

```
## Only run this example in interactive R sessions  
if (interactive()) {  
  runExample("basic")  
  runExample("shinydashboard")  
  runExample("navbarPage")  
}
```

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