# Package 'shinyauthr'

October 14, 2022

Type Package

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| login | login server module (deprecated) |  |
|-------|----------------------------------|--|
|       |                                  |  |

## **Description**

Deprecated. Use loginServer instead.

shiny input

## **Arguments**

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 [reactive] supply the returned reactive from logout here to trigger a user logout log\_out

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

a function with two parameters: user and session. The function must save these cookie\_setter

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.

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# **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)</pre>
```

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 |

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#### 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.

```
library(shiny)
# dataframe that holds usernames, passwords and other user data
user_base <- dplyr::tibble(</pre>
  user = c("user1", "user2"),
  password = c("pass1", "pass2"),
  permissions = c("admin", "standard"),
  name = c("User One", "User Two")
)
ui <- fluidPage(</pre>
  # 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) {</pre>
  # call login module supplying data frame,
  # user and password cols and reactive trigger
  credentials <- shinyauthr::loginServer(</pre>
    id = "login",
```

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```
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)</pre>
```

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 func-<br>tion |
|------------|--|
| title      | header title for the login panel   |
| user_title | label for the user name text input   |
| pass_title | label for the password text input  |

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```
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.

```
library(shiny)
# dataframe that holds usernames, passwords and other user data
user_base <- dplyr::tibble(</pre>
 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) {</pre>
 # call login module supplying data frame,
 # user and password cols and reactive trigger
 credentials <- shinyauthr::loginServer(</pre>
    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(</pre>
    id = "logout",
    active = reactive(credentials()$user_auth)
 output$user_table <- renderTable({</pre>
    # use req to only render results when credentials()$user_auth is TRUE
    req(credentials()$user_auth)
```

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```
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

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

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| 10 | σnut 9 | Server    |  |
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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

```
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</pre>
```

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```
tableOutput("user_table")
)
server <- function(input, output, session) {</pre>
 # call login module supplying data frame,
 # user and password cols and reactive trigger
 credentials <- shinyauthr::loginServer(</pre>
    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(</pre>
    id = "logout",
   active = reactive(credentials()$user_auth)
 )
 output$user_table <- renderTable({</pre>
    # 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

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| 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

```
library(shiny)
# dataframe that holds usernames, passwords and other user data
user_base <- dplyr::tibble(</pre>
  user = c("user1", "user2"),
  password = c("pass1", "pass2"),
  permissions = c("admin", "standard"),
  name = c("User One", "User Two")
ui <- fluidPage(</pre>
  # 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) {</pre>
  # call login module supplying data frame,
  # user and password cols and reactive trigger
  credentials <- shinyauthr::loginServer(</pre>
    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(</pre>
    id = "logout",
    active = reactive(credentials()$user_auth)
  output$user_table <- renderTable({</pre>
    # use req to only render results when credentials()$user_auth is TRUE
    req(credentials()$user_auth)
    credentials()$info
```

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```
})

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.

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

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