

Package: shinyStorePlus (via r-universe)

September 16, 2024

Type Package

Title Secure in-Browser Storage for 'Shiny' Inputs, Outputs and Variables

Version 1.2

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Description Store persistent and synchronized data from 'Shiny' inputs within the browser in a secure format. Refresh 'Shiny' applications and preserve user-inputs over multiple sessions. A database-like storage format is implemented using 'Dexie.js' <<https://dexie.org>>, a minimal wrapper for 'IndexedDB'. Transfer browser link parameters to 'Shiny' input or output values.

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URL <https://shinystoreplus.obi.obianom.com>

BugReports <https://github.com/oobianom/shinyStorePlus>

Depends R (>= 3.6)

Imports shiny, jsonlite, utils, htmltools, shinyWidgets

Suggests rmarkdown, knitr, qpdf

Encoding UTF-8

VignetteBuilder knitr

Language en-US

LazyData false

RoxygenNote 7.2.3

Repository <https://oobianom.r-universe.dev>

RemoteUrl <https://github.com/oobianom/shinystoreplus>

RemoteRef HEAD

RemoteSha 4ff241ca478347a8fc46db1c23b1d3d348fb3e00

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<i>clearStore</i>	<i>Clear storage for an application</i>
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Description

Remove all stored inputs of an application

Usage

```
clearStore(appId, session = getDefaultReactiveDomain())
```

Arguments

<i>appId</i>	the application identification
<i>session</i>	session object

Value

No return value, called for side effects

Note

Ensure not to use this function when the inputs are intended to be tracked.

Examples

```
if (interactive()) {
  library(shiny)
  library(shinyStorePlus)

  ui <- fluidPage(
    # initialize stores
    initStore(),
    "Sample delete storage",
    selectInput("dataset",
      label = "Dataset",
      choices = c("dataset 1", "dataset 2")
    )
  )
  server <- function(input, output, session) {
```

```
    appid <- "application01"
    clearStore(appId = appid)
}
shinyApp(ui, server)
}
```

initStore

Included package scripts

Description

Include Dexie and the package script in the header

Usage

```
initStore()
```

Value

Initialize the storage by including scripts necessary for the persistent storage handling

Examples

```
library(shiny)
library(shinyStorePlus)

if (interactive()) {
  ui <- shiny::fluidPage(
    # initialize stores
    initStore(),
    titlePanel("Sample
      shinyStorePlus Init Inputs"),
    sidebarLayout(
      sidebarPanel(
        sliderInput("nextgenshinyapps1",
          "Number of bins:",
          min = 1,
          max = 200,
          value = 150
        ),
        textInput(
          "caption",
          "simple caption:",
          "summary, try editing"
        ),
        numericInput("obs",
          "sample observations:",
          10,
          min = 1, max = 100
        )
      )
    )
}
```

```

),
mainPanel(
  plotOutput("distPlot")
)
)
)
server <- function(input, output, session) {
  output$distPlot <- renderPlot({
    x <- faithful[, 2]
    bins <- seq(min(x),
      max(x),
      length.out =
        input$nextgenshinyapps1 + 1
    )
    hist(x,
      breaks = bins,
      col = "blue",
      border = "gray"
    )
  })
}
shiny::shinyApp(ui = ui, server = server)
}

```

link2input

Convert Browser Location Parameters to Shiny Input and Output Values

Description

Parse the browser link and retrieve parameters for inclusion as values in inputs or outputs

Usage

```
link2input(..., inputtype = "default", session = getDefaultReactiveDomain())
```

Arguments

...	List of Shiny input IDs to match with window location parameters
inputtype	Type of inputs being included
session	Shiny session object

Value

Setting of the Shiny inputs to the values of the parameters in the browser link

`seeexample`

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Note

a great example of how to use this functionality can be found in <https://cran.r-project.org/web/packages/shinyStorePlus/vignettes/>

Examples

```
if (interactive()) {  
  # within the server function  
  server <- function(input, output, session) {  
    link2input(  
      cd323 = "name",  
      datasetbin = "data",  
      numberid = "num"  
    )  
  
    link2input(  
      outputid = "outt",  
      inputtype = "output"  
    )  
  }  
}
```

`seeexample`

Load the example for the package

Description

Example of a shiny application with secure in-browser storage of inputs when changed

Usage

```
seeexample(  
  name = c("storeInputs", "browserLinkToInput", "shinyWidgetsExamples")  
)
```

Arguments

<code>name</code>	the name of example to view. choices include <code>storeInputs</code> or <code>browserLinkToInput</code> or <code>shinyWidgetsExamples</code>
-------------------	---

Value

An example of inputs persistently stored when changed and the page refreshed

Note

Changes made to the input or putputs will be saved and returned when the page is refresh within the same browser over different sessions. More examples are located at https://github.com/oobianom/aagarw30_shinyapps_to_shinyStorePlus

Examples

```
if (interactive()) {
  seeexample()
  seeexample("browserLinkToInput")
}
```

`setupStorage`

Set up inputs for storage

Description

Set up the application and inputs to track and retrieve stores

Usage

```
setupStorage(
  appId,
  inputs = TRUE,
  outputs = FALSE,
  session = getDefaultReactiveDomain(),
  dyn.inputs = list()
)
```

Arguments

<code>appId</code>	your desired application id
<code>inputs</code>	choose whether to track all inputs or specific input variables
<code>outputs</code>	choose whether to track all outputs or specific output variables
<code>session</code>	current session to track
<code>dyn.inputs</code>	dynamic inputs; inputs that get added to the app from the server function

Details

As of version 1.2, the user may be able to store dynamically generated inputs

Value

Embed within a page storage that allows input changes to be saved without slowing down the shiny application

Note

the inputs argument may be a TRUE or FALSE or a list of input ids. More examples are located at https://github.com/oobianom/aagarw30_shinyapps_to-shinyStorePlus

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