

# Package ‘shinyStorePlus’

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**Type** Package

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

**Version** 0.6

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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'.

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**URL** <https://github.com/oobianom/shinyStorePlus>

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

**Depends** R (>= 3.4)

**Imports** shiny, jsonlite, utils, htmltools

**Suggests** rmarkdown, knitr, qpdf

**Encoding** UTF-8

**VignetteBuilder** knitr

**Language** en-US

**LazyData** false

**RoxygenNote** 7.1.1

**NeedsCompilation** no

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**Repository** CRAN

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

Remove all stored inputs of an application

**Usage**

```
clearStore(appId)
```

**Arguments**

appId	the application identification
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**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)
}
```

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initStore	<i>Included package scripts</i>
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## 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)
}

```

**seeexample***Load the example for the package***Description**

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

**Usage**

```
seeexample()
```

**Value**

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

**Note**

Changes made to the input will be saved and returned when the page is refresh within the same browser over different sessions

**Examples**

```

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

---

setupStorage	<i>Set up inputs for storage</i>
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## Description

Set up the application and inputs to track and retrieve stores

## Usage

```
setupStorage(appId, inputs = TRUE)
```

## Arguments

appId	your desired application id
inputs	choose whether to track all inputs or specific input variables

## 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

## Examples

```
library(shiny)
library(shinyStorePlus)

# example 1 that tracks all inputs
if (interactive()) {
  ui <- shiny::fluidPage(
    titlePanel("EX1",
              shinyStorePlus All Inputs"),
    initStore(),
    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"
    )
  })
}

# insert at the bottom
appid <- "application01"
setupStorage(
  appId = appid,
  inputs = TRUE
)
}
shiny::shinyApp(ui = ui, server = server)
}

# example 2 that tracks only 2 inputs
if (interactive()) {
  ui <- shiny::fluidPage(
    # init stores
    initStore(),
    titlePanel("Ex2:
      shinyStorePlus Some 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"
    )
  })
}

# insert at the bottom !!!IMPORTANT
appid <- "application023"
setupStorage(
  appId = appid,
  inputs = list(
    "nextgenshinyapps1",
    "caption"
  )
)
}
shiny::shinyApp(ui = ui, server = server)
}
```

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