Shiny Quick Starter

Build Shiny Apps per Drag & Drop

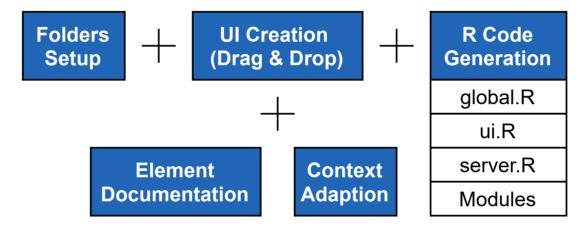




Leon Binder

Motivation

RStudio addin that integrates the



Focus on

- Usability during the entire app development process
 - Prototyping, Initial Setup, Extending (Modules)
- User Experience
 - Beginner friendly design for new developers
 - Sufficient functionality/complexity for advanced developers

Generatable Code

global.R

```
library(shiny)
library(plotly)
library(data.table)
# Load data.
data = fread("data/data.csv")
# Source functions.
function files = list.files(path = "functions", f
for (file in function files) {
   source(file, encoding = "UTF-8")
# Source modules.
module files = list.files(path = "modules", full.
for (file in module files) {
   source(file, encoding = "UTF-8")
```

ui.R

```
ui <- navbarPage(</pre>
  title = "useR!2021",
   tabPanel(
     title = NULL,
     icon = icon("home"),
     sidebarLayout(
       sidebarPanel(
         fileInput(
           inputId = "upload",
           label = "Upload",
           accept = c(".csv")
       mainPanel(
         plotlyOutput(
           outputId = "data"
```

Generatable Code

server.R

```
server <- function(input, output, session) {</pre>
   output$data <- renderPlotly({</pre>
     fig = plot lv(
       data = iris, x = ~Sepal.Length, y = ~Petal
       type = "scatter", mode = "markers"
     ) %>%
     lavout(
       title = "Sepal Length vs. Petal Length",
       xaxis = list(title = "Sepal Length"),
       yaxis = list(title = "Petal Length"),
       legend = list(orientation = "v", title = 1
     fig
```

module.R

```
data_ui <- function(id) {</pre>
   ns = NS(id)
   tagList(
     wellPanel(
       dataTableOutput(
          outputId = ns("data")
data server <- function(id) {</pre>
   moduleServer(id, function(input, output, sessi
     output$data <- renderDataTable({</pre>
       iris
     }, options = list(searching = FALSE, lengthC
   })
```

Demonstration

Get Started

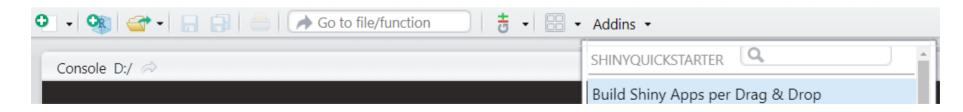
Install the **ShinyQuickStarter** package from **CRAN**:

```
install.packages("ShinyQuickStarter")
```

Launch the addin through the terminal

```
ShinyQuickStarter()
```

or through RStudio



Further development

- Extension by **shinydashboardPlus**
- Export/Import of current state
- Allowing movement of UI Elements
- Enabling connections between Inputs and Outputs
- Adding arguments/return for Modules

Contact

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Thanks!



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