

Shiny – Part 1

Shiny App – Skeleton

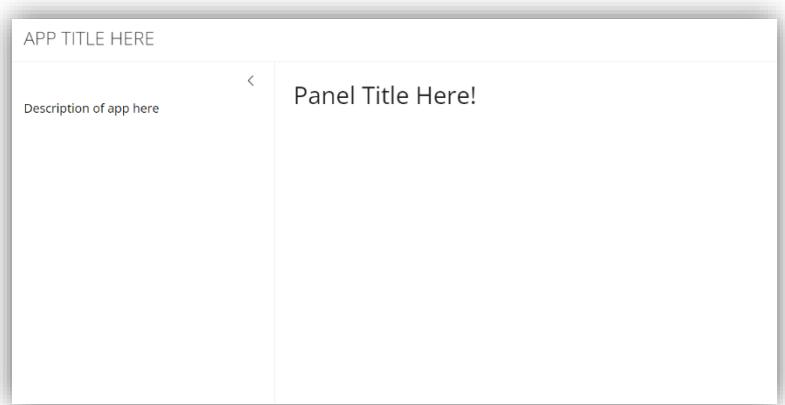
```
library(shiny)
library(bslib)

# Define user interface
ui <- page_sidebar(
  # App title
  title = "APP TITLE HERE",
  # Sidebar
  sidebar = sidebar(
    width = 350,
    "Description of app here",
    # Widget code here
  ),
  # Main Panel
  titlePanel("Panel Title Here!"),
)

# Define server logic
server <- function(input, output) {

}

# Run the app
shinyApp(ui = ui, server = server)
```



Widgets

Checkbox Group

Codes:

```
card(  
    card_header("Checkbox group"),  
    checkboxGroupInput(  
        inputId = "checkGroup",  
        label = "Select all that apply",  
        choices = list("Choice 1" = 1, "Choice 2" = 2, "Choice 3" = 3),  
        selected = 1)  
,
```

Checkbox group

Select all that apply

Choice 1
 Choice 2
 Choice 3

Radio Buttons

Codes:

```
card(  
    card_header("Radio buttons"),  
    radioButtons(  
        inputId = "radio",  
        label = "Select option",  
        choices = list("Choice 1" = 1, "Choice 2" = 2, "Choice 3" = 3),  
        selected = 1)  
,
```

Radio buttons

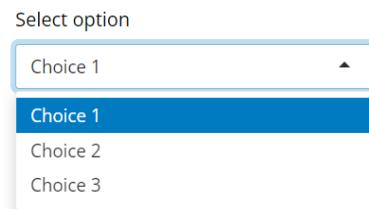
Select option

Choice 1
 Choice 2
 Choice 3

Select Box

Codes:

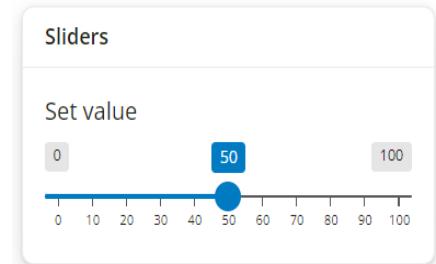
```
selectInput(  
  inputId = "select",  
  label = "Select option",  
  choices = list("Choice 1" = 1, "Choice 2" = 2, "Choice 3" = 3),  
  selected = 1),
```



Sliders

Codes:

```
card(  
  card_header("sliders"),  
  sliderInput(  
    inputId = "slider",  
    label = "Set value",  
    min = 0,  
    max = 100,  
    value = 50)  
,
```



To Recreate 1

File Name: shiny_app_widget_checkbox

My First App!

My name is Widad Abdalla, and I am very excited to make my first shiny app! :D.

Countries

From the following, what countries have you traveled to? Check all that apply:

Canada
 UAE
 USA
 Brazil
 UAE
 China

Can't wait to see what goes on this panel!

To Recreate 2

File Name: shiny_app_widget_radio_button

Best Singers

In this app, users will choose their favorite singer.

Best Singers

Who is/are the best singer/s?

Elvis Presley
 The Beatles
 If you selected The Beatles, you will get an automatic F in this class!

Timeline of Singers

To Recreate 3

File Name: shiny_app_widget_select_box

Zodiac Signs App

In this app, people will choose their zodiac sign, and the app will tell them an interval of when their birthday happens.

What is your Zodiac Sign?

Capricorn

Birthday Range

This screenshot shows a mobile-style application interface. On the left, there's a sidebar with the title 'Zodiac Signs App' at the top. Below it is a paragraph of descriptive text: 'In this app, people will choose their zodiac sign, and the app will tell them an interval of when their birthday happens.' Underneath this is a question 'What is your Zodiac Sign?' followed by a dropdown menu. The dropdown menu has 'Capricorn' selected. On the right side of the screen, the main content area is titled 'Birthday Range'.

Close look at the widget

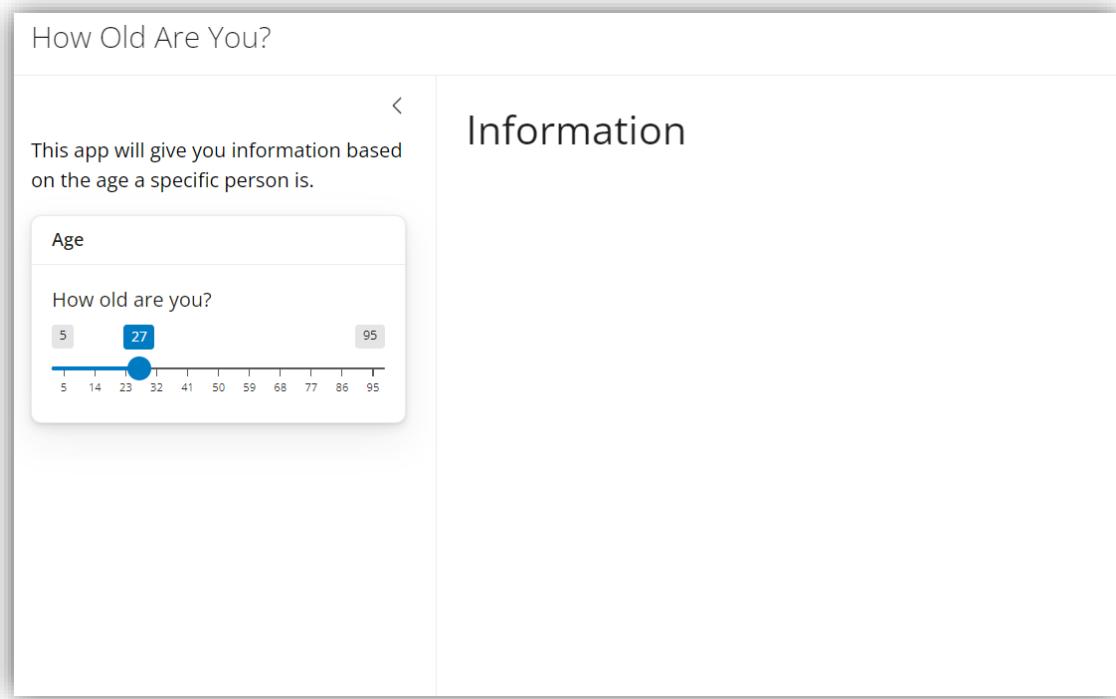
What is your Zodiac Sign?

Capricorn

- Aries
- Taurus
- Gemini
- Cancer
- Leo
- Virgo
- Libra

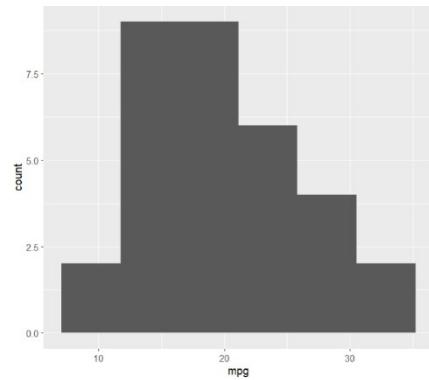
To Recreate 4

File Name: shiny_app_widget_slider



Shiny – Part 2

```
plot_1 <- mtcars %>%
  ggplot(aes(x = mpg)) +
  geom_histogram(bins = 6)
plot_1
```



Shiny App – Skeleton

```
library(shiny)
library(bslib)

# Define user interface
ui <- page_sidebar()

# App title
title = "APP TITLE HERE",

# Sidebar
sidebar = sidebar(
  width = 350,
  "Description of app here",
```

```
# widget code here

),

# Main Panel

titlePanel("Panel Title Here!"),

plotOutput(outputId = "display_plot")

)

# Define server logic
server <- function(input, output) {

  output$display_plot <- renderPlot({

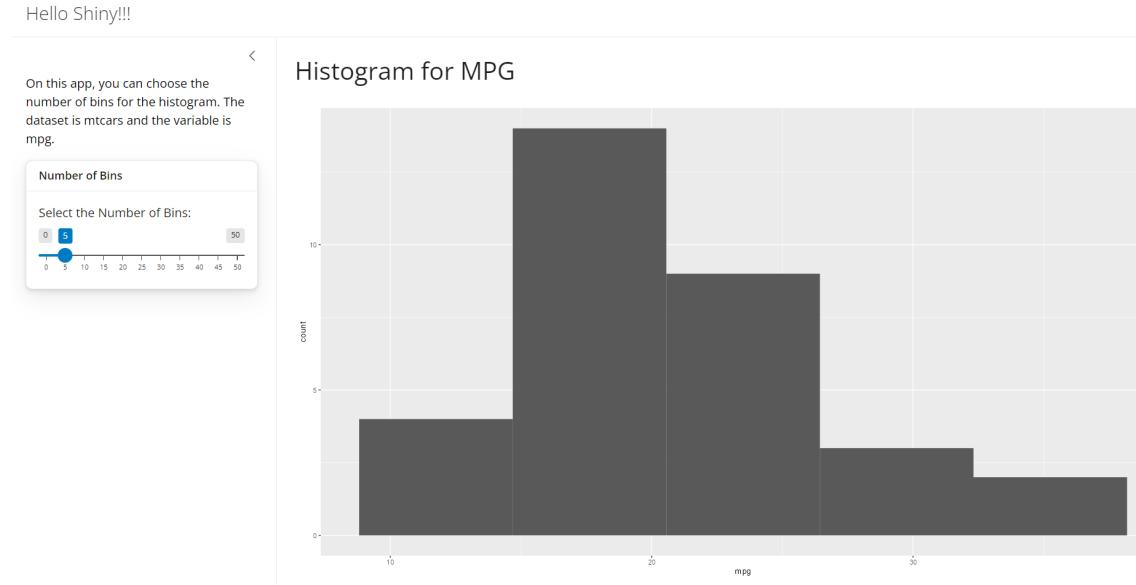
  })

}

# Run the app
shinyApp(ui = ui, server = server)
```

To Recreate 1

File Name: shiny_app_histogram_1



To Recreate 2

File Name: shiny_app_histogram_2

