Shiny App: Random variable generator and visualization

```
library(shiny)
ui <- fluidPage(
  sliderInput(inputId = "num",
              label = "Choose a number by sliding",
              value = 50, min = 0, max = 1000),
  actionButton(inputId = "norm", label = "Normal"),
  actionButton(inputId = "unif", label = "Uniform"),
  actionButton(inputId = "exp", label = "Exponential"),
 actionButton(inputId = " pois", label = " Poisson"),
  plotOutput("hist"),
  plotOutput("boxplot")
)
```

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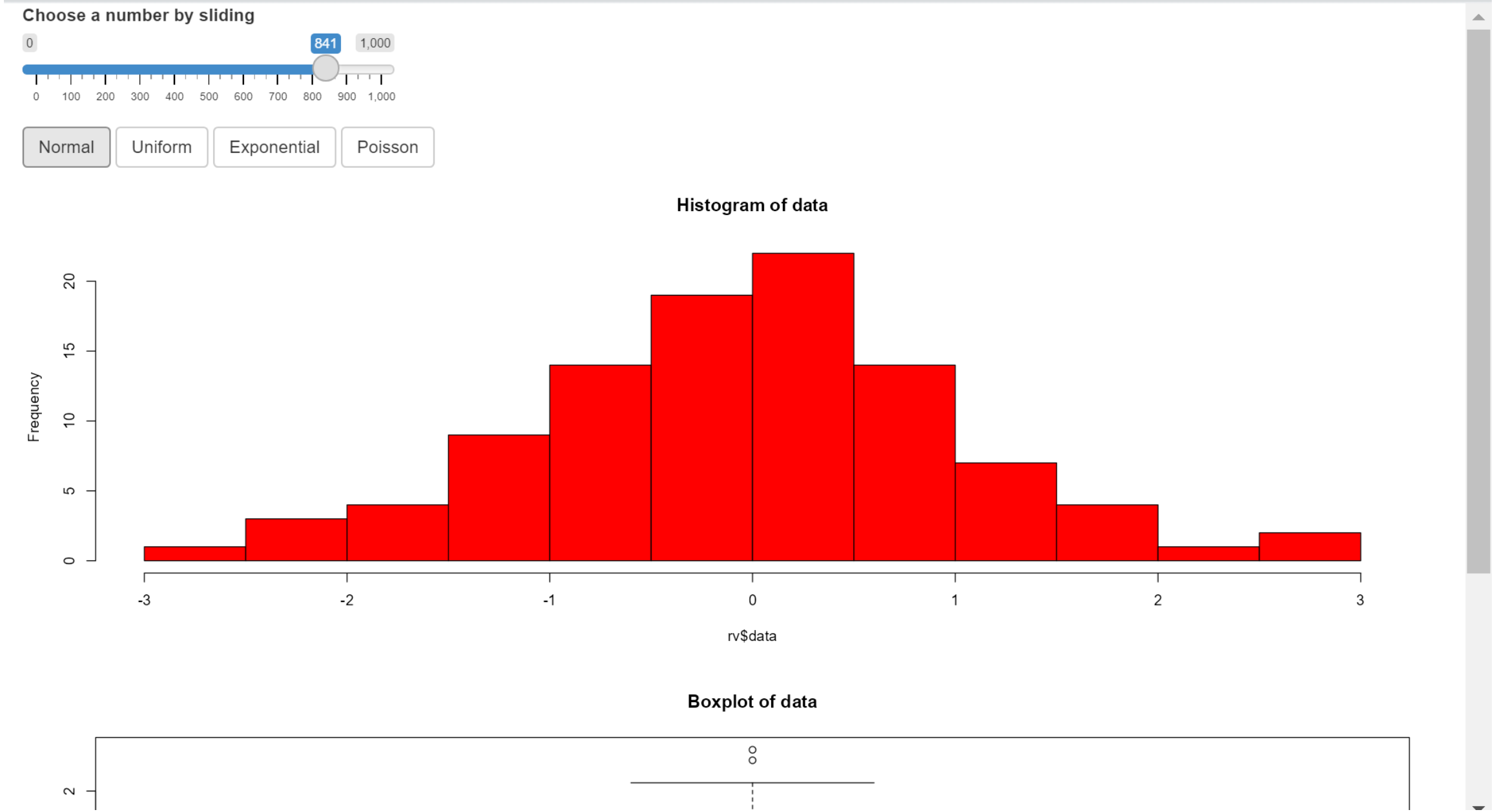
```
server <- function(input, output) {
  rv <- reactiveValues(data = rep(0,1000))
  observeEvent(input$norm, { rv$data <- rnorm(1000) })
  observeEvent(input$unif, { rv$data <- runif(1000) })
  observeEvent(input$exp, { rv$data <- rexp(1000) })
   observeEvent(input$pois, { rv$data <- rpois(1000) })
  output$hist <- renderPlot({
    hist(rv$data,col="red",main="Histogram of data")
  })
  output$boxplot <- renderPlot({
    boxplot(rv$data, col="darkblue",main="Boxplot of
data")
  })
}
shinyApp(ui = ui, server = server)
```



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