```
library(shiny)
library(shinydashboard)
library(DT)
library(tibble)
library(lattice)

ui <- dashboardPage(
  dashboardHeader(title = "Soil Moisture Tamilnadu -2018"),
  dashboardSidebar(
    sidebarMenu(
      menuItem("hist", tabName = "hist", icon = icon("tree")),
      menuItem("soil_moisture", tabName = "soil_moisture", icon = icon("leaf")),
      menuItem("soil_dataset", tabName = "soil_dataset", icon = icon("star"))
    )
  ),
  dashboardBody(
    tabItems(
      tabItem("soil_moisture",
              box(plotOutput("correlation_plot"),width = 8),
              box(

selectInput("features","Features:",c("Aggregate_Soilmoisture_Percentage_at_15cm","Volume_Soilmoisture_percentage_at_15cm")),width
= 4
              )
      ),
      tabItem("hist",
              box(
                title = "Histogram", status = "primary", solidHeader = TRUE,
                collapsible = TRUE,
                plotOutput("plot3", height = 250),
                plotOutput("plot2", height = 200),
                plotOutput("plot1", height = 200)
              ),

              box(
                title = "Inputs", status = "warning", solidHeader = TRUE,
                "Box content here", br(), "More box content",
                sliderInput("slider", "Slider input:", 1, 100, 50),
                textInput("text", "Text input:")
              )
      ),
      tabItem("soil_dataset",
              fluidPage(
                h1("soil"),
                dataTableOutput("soil_dataset")
              )
      )
    )
  ))


server <- function(input, output){

  output$correlation_plot <- renderPlot({
    plot(df$Average_Soilmoisture_Level_at_15cm,df[[input$features]],xlab = "Average Soilmoisture", ylab = "Feature")
  })

  output$plot3 <- renderPlot({
    hist(df$Average_Soilmoisture_Level_at_15cm)
  })
  output$plot2 <- renderPlot({
    hist(df$Aggregate_Soilmoisture_Percentage_at_15cm)
  })
  output$plot1 <- renderPlot({
    hist(df$Volume_Soilmoisture_percentage_at_15cm)
  })

  output$soil_dataset <- renderDataTable(df)
}

shinyApp(ui, server = server)
```