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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)

```