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library(shiny)
library(shinydashboard)
library(arules)
library(stringr)
library(datasets)
#####
#####
source("Apriori.r", local = TRUE)
#####
#####
Logged = FALSE;
REGISTERED = FALSE;
#PASSWORD <- data.frame(Username = "1", Password = "1")
PASSWORD <- read.csv("pw_db.csv", header = TRUE)
PASSWORD <- as.data.frame(PASSWORD)
print(PASSWORD)
#source("Login.r", local = TRUE)
server <- function(input, output){

  source("Login.r", local = TRUE)
  #####
  output$text1 <- renderText({
    "Welcome"
  })

  observe({

    if(!is.null(input$logout)){
      if(input$logout > 0){
        stopApp()
      }
    }

    if (USER1$REGISTERED == TRUE){
      print("True")

      output$page1 <- renderUI({

        sidebarMenu(
          #menuItem("Georgia Tech Course Catalog",icon =
icon("dashboard"),href = "http://www.catalog.gatech.edu/courses-grad/ece/"),

          menuItem("Links!",icon = icon("external-link-square"),
            menuSubItem("Your BuzzPort!! ", icon =
icon("dashboard"), href =
"https://buzzport.gatech.edu/cp/home/displaylogin"),
            menuSubItem("Find your Course!! - Georgia Tech
Course Catalog", icon = icon("dashboard"), href =
"https://oscar.gatech.edu/pls/bprod/bwckctlg.p_disp_dyn_ctlg"),
            menuSubItem("Average Course Grade!! - Georgia
Tech Course Critique", icon = icon("dashboard"), href =
"https://critique.gatech.edu/")
          ),

          title=("Enter personal information"),
          textInput("name","Enter your name",""),

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        selectInput("mydegreelevel","Enter your degree
level",c("UG" ,"Master's", "PhD", " "),selected= " ", selectize = TRUE),
        #selectInput("uField","Enter your field of
study",choices = c("ECE" =1 ,"CS"=2, " "=3),selected= " ", selectize = TRUE)
        selectInput("uField","Enter your field of study",c("ECE"
,"CS", " "),selected= " ", selectize = TRUE),
        selectInput("uTIG","Enter your TIG", tig.list, selected=
" ", selectize = TRUE),
        selectInput("uTerm","Enter your Term",
c("Fall","Spring"," " ),selected=" ",selectize = TRUE, multiple = FALSE),
        selectInput("uSem","Is this your 1st sem?",
c("YES","NO"," " ),selected=" ",selectize = TRUE, multiple = FALSE),
        uiOutput("y2"),

        actionButton("done", "Done")

    )
  })
}

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if (USER$Logged == TRUE){

  output$page1 <- renderUI({

    sidebarMenu(
      #menuItem("Georgia Tech course catalog",icon =
icon("dashboard"),href = "http://www.catalog.gatech.edu/courses-grad/ece/"),
      menuItem("Important Links!",icon = icon("external-link-square"),
        menuSubItem("Your BuzzPort!! ", icon = icon("forumbee"),
href = "https://buzzport.gatech.edu/cp/home/displaylogin"),
        menuSubItem("Find your Course!! - Georgia Tech Course
Catalog", icon = icon("graduation-cap"), href =
"https://oscar.gatech.edu/pls/bprod/bwckctlg.p_disp_dyn_ctlg"),
        menuSubItem("Average Course Grade!! - Course Critique",
icon = icon("book"), href = "https://critique.gatech.edu/"),
        menuSubItem("Georgia Tech Calender", icon =
icon("calendar"), href = "http://www.registrar.gatech.edu/calendar/")
      ),

      selectInput("uTerm","Enter your Term", c("Fall","Spring"," "
),selected=" ",selectize = TRUE),
      selectInput("uTIG","Enter your TIG", tig.list, selected= " ",
selectize = TRUE),
      selectInput("uCourse","Enter your courses taken", courses$Full_Info,
selected=" ",selectize = TRUE, multiple = TRUE),

      #checkboxGroupInput("Tabs",
label=h4("tabpanel"),choices=list("tabs"="Tabs"),selected = NULL)
      actionButton("logout", "Logout")

    )

  })
}

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}))

output$page2 <- renderUI({

  fluidRow( (title="Personal information"),
    textOutput("myname"),
    textOutput("mydegreelevel"),
    textOutput("myufield"),
    textOutput("myuTIG"),
    #selectInput("myusem"),

    tabsetPanel(
      tabPanel("All courses", dataTableOutput("mydatabase1")),
      tabPanel("Recommended",dataTableOutput("mydatabase"))

    )
  )
}))

PASSWORD <- read.csv("pw_db.csv", header = TRUE)
PASSWORD <- as.data.frame(PASSWORD)
Username <- isolate(input$username)
Password <- isolate(input$passwd)
pwd <- read.csv("pw_db.csv")
Id.username <- which(PASSWORD$username == Username)
n1 <- pwd[Id.username[1],3]
output$myname <- renderText(
  paste("Name is:", n1 ))
n2 <- pwd[Id.username[1],4]
output$mydegreelevel <- renderText(
  paste("Degree Level:",n2 ))
n3 <- pwd[Id.username[1],5]
output$myufield <- renderText(
  paste("Field is:",n3) )
n4 <- pwd[Id.username[1],6]

output$myuTIG <- renderText(
  paste("TIG :",n4) )

# output$myuCourse <- renderText(
#   paste("Courses :",input$uCourse) )
#####
# m <- dim(rules2)[1]
# n <- dim(rules2)[2]
# mat <- matrix(0:0 ,m,n)

#mat[1, ] <- rules1[1, ]

output$mydatabase <- renderDataTable({

  # rulesmat <- as.matrix(rules2)
  # for (i in 1:dim(rules2)[1]){

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#   if(all(is.na(str_match(rulesmat[i,1],input$uCourse)))==FALSE) {
#     mat[i, ]<-rulesmat[i, ]
#   }
#
#
# }
# # mat <- mat[(all(is.na(str_match(mat[,1],"LSC")))==FALSE)]
# mat <- mat[mat[,1]!=0, ]
# matt <- as.data.frame(mat)
# reco<-matt[,3]
# recommend <- levels(reco)
#
# recommend1 <- as.data.frame(recommend)
# recommend1mat <- as.matrix(recommend1)

#####
#####
      if(input$uTerm == "Fall")
      {
        course.input <- input$uCourse
        rules.search <- rules2[grepl(paste(course.input, collapse="|"),
rules2$lhs),]
        rules.search1 <- as.data.frame(unique(rules.search[, 2]))
      }
      else{
        course.input <- input$uCourse
        rules.search <- rules2$spring[grepl(paste(course.input,
collapse="|"), rules2$spring$lhs),]
        rules.search1 <- as.data.frame(unique(rules.search[, 2]))
      }

#####
#####
      recommend1mat <- as.matrix(rules.search1)
      a <- dim(recommend1mat)[1]
      b <- dim(recommend1mat)[2]
      temp <- matrix(0:0 ,a,b)

      if(a!=0){

        for (i in 1:a)
        {

if(all(is.na(str_match(recommend1mat[i,1],input$uCourse)))==TRUE) {
      temp[i,1 ]<-recommend1mat[i,1 ]
    }

}

      temp <- temp[temp[,1]!=0, ]
      tempdata <- as.data.frame(temp)

#####
#####

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tempdata[]

}else{

    rules.search1[]

}

})

#####
#####3

output$mydatabase1 <- renderDataTable({

    tig.ece <- switch(input$uTIG,
        "BioEngineering" = courses.by.tig.ece[,1],
        "Computer Systems and Software" =
courses.by.tig.ece[,2],
        "Digital Signal Processing" = courses.by.tig.ece[,3],
        "Electrical Energy" = courses.by.tig.ece[,4],
        "Electromagnetics" = courses.by.tig.ece[,5],
        "Electronic Design and Applications" =
courses.by.tig.ece[,6],
        "Microelectronics" = courses.by.tig.ece[,7],
        "Optics & Photonics" = courses.by.tig.ece[,8],
        "Systems ad Controls" = courses.by.tig.ece[,9],
        "Telecommunications" = courses.by.tig.ece[,10],
        "VLSI" = courses.by.tig.ece[,11],
        "Computation Perception and Robotics" =
courses.by.tig.ece[,12],
        "Computer Graphics" = courses.by.tig.ece[,13],
        "Computing Systems" = courses.by.tig.ece[,14],
        "Human Computer Interaction" = courses.by.tig.ece[,15],
        "Interactive Intelligence" = courses.by.tig.ece[,16],
        "Electronic Design and Applications" =
courses.by.tig.ece[,17],
        "Machine Learning" = courses.by.tig.ece[,18],
        "Social Computing" = courses.by.tig.ece[,19],
        "Visual Analytics" = courses.by.tig.ece[,20]

    )

    # tig.cs <- switch(input$uTIG,
    #                     "Computation Perception and Robotics" =
courses.by.tig.cs[,1],
    #                     "Computer Graphics" = courses.by.tig.cs[,2],
    #                     "Computing Systems" = courses.by.tig.cs[,3],
    #                     "Human Computer Interaction" =
courses.by.tig.cs[,4],

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# "Interactive Intelligence" =
courses.by.tig.cs[,5],
# "Electronic Design and Applications" =
courses.by.tig.cs[,6],
# "Machine Learning" = courses.by.tig.cs[,7],
# "Social Computing" = courses.by.tig.cs[,8],
# "Visual Analytics" = courses.by.tig.cs[,9]
# )

tig1.ece <-as.data.frame(tig.ece)
#tig1.cs <-as.data.frame(tig.cs)
#output$mydatabase1 <- renderDataTable({
if (n2 == "Master's")

{
  tig1.ece[]
}

})

}
})
}

```