library(shiny)

renderInputs <- function(prefix) {

wellPanel(

fluidRow(

column(6,

sliderInput(paste0(prefix, "\_", "n\_obs"), "Number of observations (in Years):", min = 0, max = 40, value = 20),

sliderInput(paste0(prefix, "\_", "Short\_Term\_Interest\_Rate"), "Short Term Interest Rate :", min = -1.00, max = 10.00, value = .50, step = .05, pre = "", post = "%", sep = ","),

sliderInput(paste0(prefix, "\_", "annual\_mean\_return"), "Annual investment return (in %):", min = 0.0, max = 30.0, value = 5.0, step = 0.5),

sliderInput(paste0(prefix, "\_", "annual\_ret\_std\_dev"), "Annual investment volatility (in %):", min = 0.0, max = 25.0, value = 7.0, step = 0.1)

),

column(6,

sliderInput(paste0(prefix, "\_", "annual\_inflation"), "Annual inflation (in %):", min = 0, max = 20, value = 2.5, step = 0.1),

sliderInput(paste0(prefix, "\_", "annual\_inf\_std\_dev"), "Annual inflation volatility. (in %):", min = 0.0, max = 5.0, value = 1.5, step = 0.05),

sliderInput(paste0(prefix, "\_", "Time\_to\_Maturity"), "Time to Maturity:", min = 0, max = 100, value = 5, step = 1, pre = "", post = "yrs", sep = ","),

sliderInput(paste0(prefix, "\_", "n\_sim"), "Number of simulations:", min = 0, max = 2000, value = 200)

)

),

p(actionButton(paste0(prefix, "\_", "recalc"),

"Re-run simulation", icon("random")

))

)

}

# Define UI for application that plots random distributions

shinyUI(fluidPage(theme="simplex.min.css",

tags$style(type="text/css",

"label {font-size: 12px;}",

".recalculating {opacity: 1.0;}"

),

# Application title

tags$h2("Simulating Interest Rates"),

p("An adaptation of the",

tags$a(href="http://glimmer.rstudio.com/systematicin/retirement.withdrawal/", "retirement app"),

"from",

tags$a(href="http://systematicinvestor.wordpress.com/", "Systematic Investor"),

"to demonstrate the use of Shiny's new grid options."),

hr(),

fluidRow(

column(6, tags$h3("Scenario A")),

column(6, tags$h3("Scenario B"))

),

fluidRow(

column(6, renderInputs("a")),

column(6, renderInputs("b"))

),

fluidRow(

column(6,

plotOutput("a\_distPlot", height = "600px")

),

column(6,

plotOutput("b\_distPlot", height = "600px")

)

)

))