**Steps for Asleep App**

1. Build out structure

Graphical user interface, text, application

Description automatically generated

1. Create title panel

Graphical user interface, text, application, email

Description automatically generated

1. Create sidebar layout with sidebar and main panel

Graphical user interface, text, application, email

Description automatically generated

1. Create first input: selectInput()

Graphical user interface, text, application

Description automatically generated

1. Create second input: numericInput()

Text

Description automatically generated

1. Create third input: numericInput()

Graphical user interface, text

Description automatically generated

1. Create fourth input: selectInput()

Text

Description automatically generated

1. Create action button

Text

Description automatically generated

1. Create server logic (will not display probabilities at this step because output not in UI)

Graphical user interface, text, application

Description automatically generated

1. Display probability on main panel

Graphical user interface, text

Description automatically generated with medium confidence

**Outputs**

If you would like to run the app after completing each step, the outputs are below:

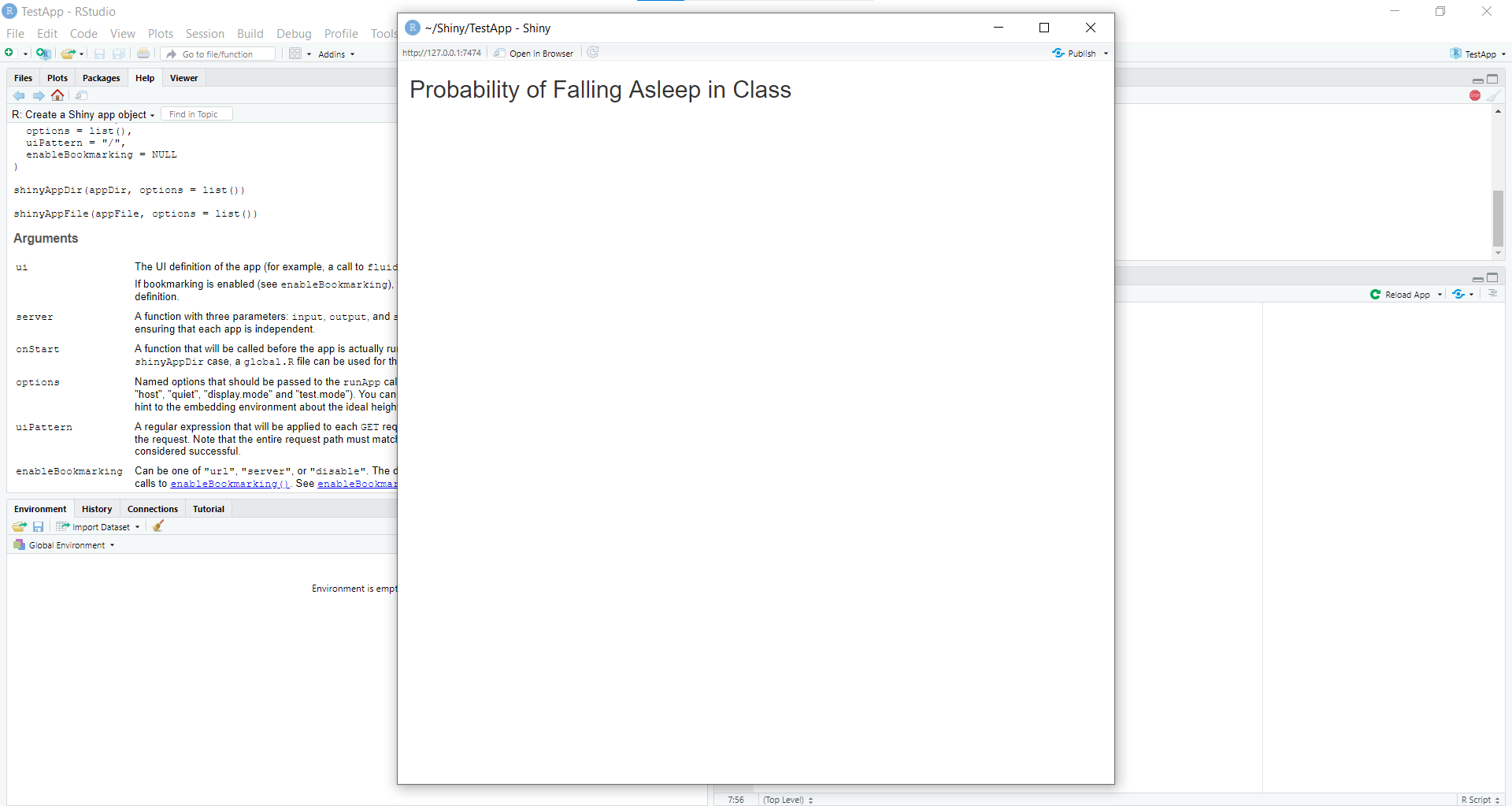


Figure 1: Step 2 output; title created

Graphical user interface, application, Word

Description automatically generated

Figure 2: Step 3 output; sidebar layout created with side panel and main panel

Graphical user interface, application, Word

Description automatically generated

Figure 3: Step 4 output; coffee drop-down created

Graphical user interface, application, Word

Description automatically generated

Figure 4: Step 5 output; input box created for hours of sleep

Graphical user interface, application

Description automatically generated

Figure 5: Step 6 output; input box created for age

Graphical user interface, application

Description automatically generated

Figure 6: Step 7 output; drop-down menu created for enjoying the material

Graphical user interface, application

Description automatically generated

Figure 7: Step 8 output; submit button created

Graphical user interface, application

Description automatically generated

Figure 8: Step 10 output; displaying probability on user interface