CS614 – Prof. Berardi Homework #5 (Lecture 7)

In this assignment, you will build and shiny dashboard to aid with data exploration. The data set is for this exercise is from a commercial app used for meditation and covers the in-app activities for 50 users.

The data, located above, consists of the following variables:

ID: Participant ID

Variable Name	<u>Description</u>	Variable Name	<u>Description</u>
ID	Participant ID	completed	Was the activity session completed or not
date	Timestamp of activity start time (string)	session_type	Type of activity
logged_at_local	Timestamp of activity start time (POSIXct)	program title	Title of program
duration_in_sec	Duration of activity		

You have three tasks for this assignment.

- 1.) Build a shiny app that does the following:
 - a. uses a drop-down menu to select a participant and accepts a date range.
 - b. has the date range initial start/end dates automatically change to the first/last date for the selected participant.
 - c. produces a Date-by-Start Time scatter plot, with activity type mapped to the shape and color shaded by duration
 - d. has a brushing feature that can select data and print the number of observations selected and the average duration for the observations selected.

An example of such an app is found here.

- 2.) Add one additional feature of your choosing to the shiny app.
- 3.) <u>Host your app</u> on the shinyapps.io server and embed in a .Rmd file using knitr::include_app(). You should save as an html file, see here for an example. Within your app, tell me one interesting thing you found while exploring with your app. (After embedding the app and telling me something interesting, include your code at the end of the .Rmd file.)