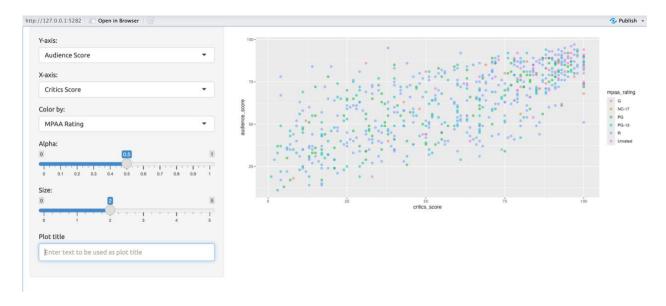
PA 446 – Coding for Civic Data Applications Assignment Total points – 54 points

Create a Shiny web application using the movieratings.csv data.

The application should look like this:



The application should have the following:

- 1. A select input with the label "Y-axis" where the user can choose from IMDB rating, IMDB number of votes, Critics Score, Audience Score, and Run time. (7pts)
- 2. A select input with the label "X-axis" where the user can choose from IMDB rating, IMDB number of votes, Critics Score, Audience Score, and Run time. (7pts)
- 3. A select input with the label "Color by:" where the user can choose from Title Type, Genre, MPAA rating, Critics Rating, and Audience Rating. (7pts)

- 4. A slider input with the label "Alpha:" where the user can choose between 0 and 1. (5pts)
- 5. A slider input with the label "Size:" where the user can choose between 0 and 5. (5pts)

- 6. A text input with the label "Plot Title" where the user can input the name of the plot. (2pts)
- 7. A scatterplot. The scatterplot should have:
 - a. X-axis that changes based on the selection made by the user under "X-axis."
 (1pts)
 - b. Y-axis that changes based on the selection made by the user under "Y-axis." (1pts)
 - c. Colored points based on the selection made by the user under "Color by:" (1pts)
 - d. Points on the plot reflect change in alpha based on the selection made by the user under "Alpha". (1pts)
 - e. Points on the plot that change size based on the selection made by the user under "Size." (1pts)
 - f. A title that changes based on the text input given by the user. (1pts)

Hint: [The arguments for parts (d and e) are passed inside the geom point function.]

- 8. A layout such that the plot is on the right side and all inputs are on the left side. (6pts)
- 9. A theme of your choice. (2pts)
- 10. A shiny app function that runs the application. (2pts)
- 11. Upload your R script on BB. It should consist of all the associated libraries. (5pts)