**Project Title:** Exploring the Top 250 Movies on IMDb with R Shiny

**Team Names:** Mackenzie Ross

**Project Summary**

Using a dataset from Kaggle with data about the 250 top rated movies on the website IMDb (Internet Movie Database), I will create an R Shiny app that will allow users to explore the data through queries and visualizations.

**Project Description**

Team

Mackenzie Ross

Objectives

- Provide a filterable dashboard that provides an overall summary of the data.
- Allow users to query data to find movies that match their chosen parameters.
- Create a page where users can get background information about a chosen movie.

Usefulness

The app is useful because it will provide the data in ways that is easier for users to digest than reading through a list. Users will be able to quickly find movies in the list by genre, director, or MPAA rating. The websites IMDb and Letterboxd all users to rate and view information about movies, but there is not a website or app that provides visualizations popular movie data. This web app is targeted toward movie lovers who would like to use data to learn about some of the most popular movies of all time. Users will not be able to create or delete movies from the database.

Dataset

The dataset was selected from Kaggle. It contains 250 rows and 22 columns of information about the 250 top-rated movies on IMDb, a popular website for finding information about movies and TV shows. The dataset was created by Kaggle user Karkavelraja J. The columns related to user

reviews will be excluded from the database to focus on data about the creators of the movie and basic statistics like runtime, MPAA rating, and IMDb rating.

- Link to dataset: https://www.kaggle.com/datasets/karkavelrajaj/imdb-top-250-movies

Communication and Sharing:

- GitHub Repo: https://github.com/mackgross/dsci-d532-final-project

Milestones:

- Week 8 – project description: Submit project description on Canvas, download dataset from Kaggle, start preliminary data exploration to become familiar with the dataset.
- Week 11 – database: Use R and RSQLite to build the database for the project from the dataset. Make necessary adjustments to data types, column formatting, and create data frames to be used as the tables in the database.
- Week 13 – web app mock: Start building the web app using R Shiny. Use Figma to help with designing the look of the web app. Have the layout of the home page and dashboard page completely built in R when submitting the assignment.
- Week 14 – short video presentation: Have the movie exploration page designed and build in R. Ensure that the database is connected to the web app to show a demonstration of the dashboard and user querying capabilities of the web app.
- Week 15 – full demo: Have the web app completely built and ready for deployment.