Milestone 0

Description

We will be using the Sakila Movies Database to present an analysis dashboard for movies. Some features we look to implement include searching and recommendation of different movies. This would rely on setting up proper foreign key relationships in our database and determining a way to aggregate movie data to make recommendations. In addition, we would like to have a flexible interface for users to compare different movies based on genre, revenue, year released and other attributes. These pieces of information can be sorted and output tuple set size should be adjustable(limiting output to x values).

As per the outline recommendations, we will be using a MySQL server hosted on our local machines. Additionally the total size of the database is well within the storage capacities of our laptops so using a remote server would introduce needless complexity. We will be presenting the application to users via a web frontend. We are still currently exploring the specific technologies for the frontend but are leaning towards a framework like streamlit or dash due to them being written in Python which is the language most familiar to most members of the group.

For the web app, there are several avenues to approach creating an interactive experience for users. One option is a standard full-stack solution with a react frontend and a Python/Java/Go backend with standard MySQL connectivity from their respective libraries. On the other hand, languages such as Python and Java offer language native full stack solutions. Python offers Streamlit and Plotly, and Java has Vaadin for dashboard-like applications. Our team will explore these options more in depth as we outline and consolidate our technical requirements.

Members

We are all in Group 34.

Arjun Sarao

- Helped write the report.

Anthony Pirvuti

- Helped write the report.

Yuhao Chen

- Helped write the report.

Hans Wang

- Helped write the report.

Rene Gonzalez

- Helped write the report.