Popcorn

Project Team: Alana, Sonny, Sytiva, Pengxu

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1. Project Definition (100 - 200 words**)** – *Group responsibility*

Popcorn is a web application that will allow users to browse through various genres of movies extracted from the IMDB API database. The idea of Popcorn came from the increase of streaming platforms being used by movie watchers at home due to the pandemic. Lots of streaming bundles became popular such as the Disney+ bundle for example. Popcorn will allow users to find the movie they want to watch and which platform it is located on instead of switching between the different apps to browse all over again in the movie section.

Instead, Popcorn offers the convenience of having all movies located in one website with links to the platforms the movie is located on. The goal is to have a web application with all movies listed and users able to get proper recommendations from previous movies they have watched, favorited or based on their specific preferences along with which movie streaming service they use.

Microsoft Azure is the main program used to hold our database for account information and data collected from ratings, preferences and useful information for the recommendation aspect. HTML and PHP is for the backend of setting up the connection between the databases and the website. CSS will be the main contributor for the interface.

2. Project Requirements – *Group responsibility*

The website is designed to be user-friendly with a very simple start of creating an account, picking a few genre preferences and which streaming services are going to be used. These inputs are then used to generate which movies are recommended to the user and they are listed in order of highest rating. The user will interact with the interface in terms of having links to where the movie is streamed or the link to the movie on their preferred streaming service. They will be able indicate whether they have watched the movie or want to add to a watch list for future reference. They will also be able to give their own, independent rating as to help the program recommend movies like the one they rated or to stray away from movies related. The rating and generating recommendations function will be manipulated using the tags on movies that IMDB API provides.

The user will be able to use the website across all internet browsers and across different hardware such as desktops and mobile devices. This means that the idea is for the website to be accessible across both android and IOS systems. The main database program will be Microsoft Azure and that is because the team has used this program before to create databases and link to websites, so the ability to instill proper security measures such as protection against SQL injection attacks will be easier.

3. Project Specification – *Group responsibility*

The main focus for now is navigating through movies. Perhaps in the future as the project progresses this will then include TV shows or foreign movies. The development environment will be Visual Studios. Languages used within the project will be PHP, HTML, SQL along with their various libraries. Platforms that this will be functional on are mobile and desktop. The genre is a Web Application.