SOFE 3700U
Data Management Systems

Project Proposal

Movie Knight

Group#: 8

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First Name	Last Name	Student Number
Daniel	LoPresti	100748818
Shahzabe	Mahmood	100745894
Jad	Eletry	100745226
Abbas	Rizvi	100746798
MohammadHamza	Asif	100767042

Problem

The main issue is that we have a library of downloaded movies all in the same domain that may or may not have any relation to one another. An avid movie watcher would ideally want to track their movie viewing history and be able to refer back to their own library of sorted movies.

Goals & Motivation

The main goal would be to efficiently and effectively sort the catalogue of movies based on metadata provided by some source (IMDB, MAL, etc…).To fix this issue we could implement a filtering system that would allow for one to easily manage their movie library. From sorting by watched/unwatched, genre, rating value, cast, director, etc. A statistical graph showing all the movies in each genre and more.

The motivation for this project would be that when downloading movies or tv shows the typical person just downloads their files to a single folder and leaves it at that. At most a person might make folders such as “Movies” or “Tv Shows” and sort the downloaded media into their respective folder. The finalized version of this project would be a tool that could organize and structure the movie viewing experience for the user.

Related Work

Some related projects:

- IMDB
- TMDB
- Rotten Tomatoes
- Metacritic
- Box Office Mojo

How is ours different from those listed above?

Our movie database is based on personalizing one's own list of downloaded movies whereas those databases focus more on the reviews and information that describes the movies. Our database targets users who want the ability to manage and constantly track what they have watched, what they want to watch, etc. Although our database will also contain the contents that describe the movie selected as well.

Methodology & Plan

We need to understand what our application will have to do logically. Assuming we start off with a set of unorganized movies, we must allow the user to query, and sort movie titles based on certain metadata of those movies. We will then attempt to employ methods of database management that we learned in class.

Our application must:

1. Search, sort query movie titles
2. Scan for new titles
3. Recommend titles based on preferences
4. Scrape internet for movie title information and store them

The most important aspect of the project will be the database, from which we build higher functions on top of. The application must be modular, allowing us to expand on functionality as we develop.