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CSIS 3280 Project Proposal

Introduction and Project Overview

I decided to work alone for this project. I had a conversation with a friend who wanted a specific web application he felt he needed, and I want to try to implement his requirements. I believe his requirements cover most of what is needed for this project, and having an external “client” will be a better experience.

The following are his requirements:

- Be able to search for a movie from a 3rd party movie database
- Be able to add movies that he has watched, using a combination of information gathered from the 3rd party API and data he is adding such as date watched, rating, and comments.
- Be able to add a list of important time-stamps for each movie, with a screenshot, time of scene, and comment.
- Be able to filter already added movies (such as searching for movies watched in 2020 that were directed by director X etc.)

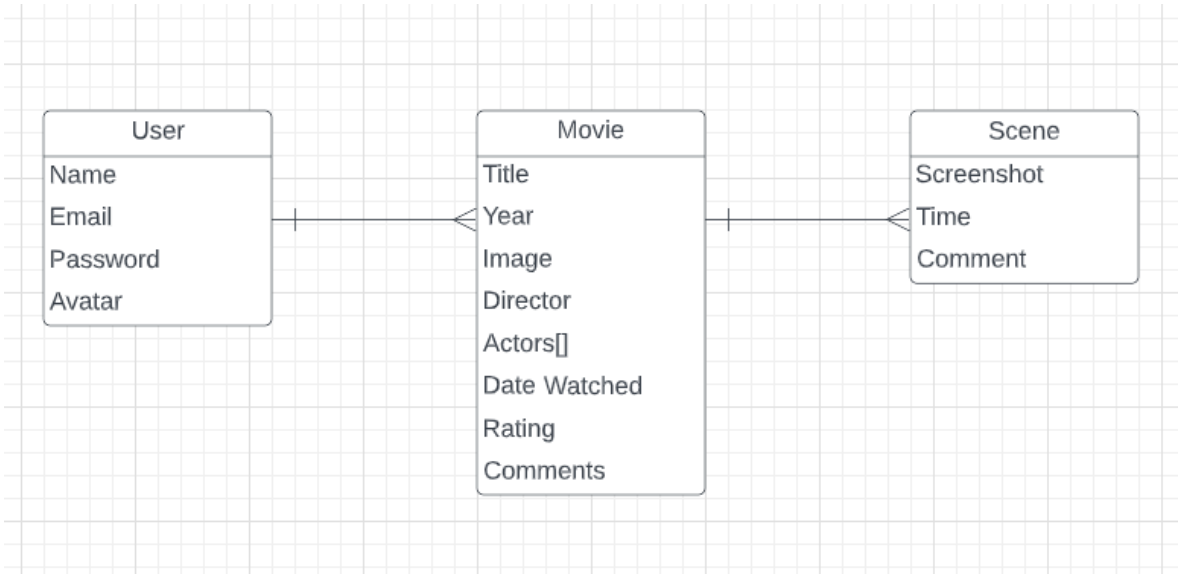
With these requirements in mind, I will try to create an application that users can log into (ideally using google authentication), after logging in, they will search for movies using TMDB (a free API similar to IMDB), they will be able to perform CRUD operations on the movies they add. On top of this, they will be able to rate and comment on the movies, and add time-stamps of scenes that might be important to them.

This won’t be a social application where others see the ratings or comments, it is for personal use for people who want to keep track of the movies they have watched, or it can possibly be used by film critics to take note of certain scenes using the time-stamp feature.

Model

From the above overview, I believe I will need to have 3 entities. User, Movie and Scene, Actor, Director

The Movie entity will be a weak entity for Users, where each User can add as many Movies as they wish. And Each Movie can have zero or more scenes.



I decided not to have Actors and Directors as entities. Title, Year, Image, Director and Actors will be taken from TMDB, and Date Watched, Rating and Comments will be inputted by the user while they are adding a new movie they have watched. Once a movie is added, the user can add individual Scenes to that movie.

So Scenes are weak entities of Movies (No scene exists without being part of a Movie), and Movies are weak entities of Users (Movies don't exist in the app separate from Users).

Features

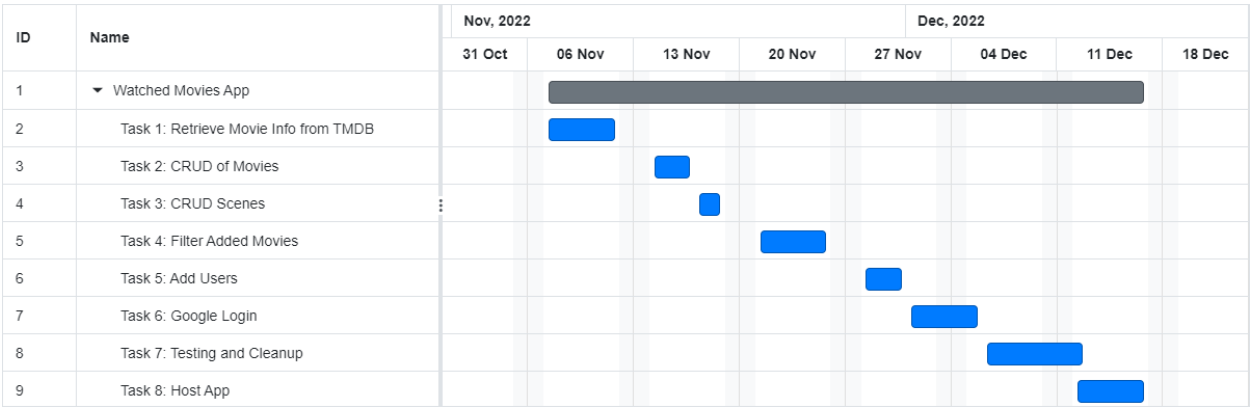
1. Getting Movie data from TMDB
2. Creating Reading Updating and Deleting watched movies
3. CRUD of Scenes
4. Using Google Authentication for login, so the app does not need to store user information such as passwords.
5. Ability to filter previously added movies by year released, year watched, director, actors etc.

Third Party Integration

I hope to use 2 3rd party services for this app. The first and most important one is TMDB in order to get important movie data such as the image, title, year released, director, list of actors etc. TMDB is a free API that sends JSON responses to requests, and I believe I can use that data to populate movies added to the database.

I also plan on using Google Authentication for Users. This might be difficult and it is not something I have done before. So I will leave this as the last goal since I will be doing the project alone. Initially I will try to create the app for a single user. If I have enough time, I will try to integrate users and Google Sign In as a stretch goal.

Gantt Chart



In the best case (where I can manage my time efficiently, other assignments and quizzes don't take up too much time, and everything goes as smoothly as possible), I would try to finish the project by December 16 including Testing and Hosting the App. I hope to do these steps as well because I want this to be an actually useful app for my friend who needs it. Without these steps, the project could potentially be finished by the first week of December, keeping in mind Google Authentication is a stretch goal.

References

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4. API Overview — The Movie Database (TMDB). (n.d.). The Movie Database. https://www.themoviedb.org/documentation/api