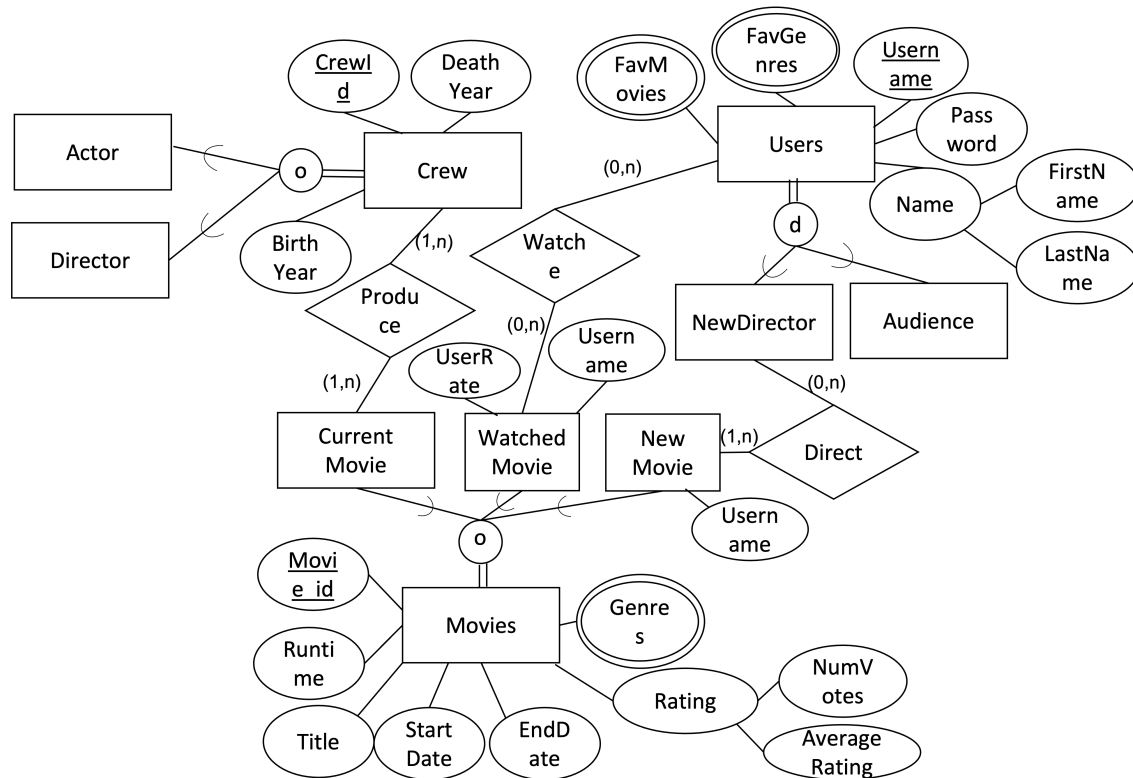# CS6400 - Individual Project Proposal

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1 ERR Model

2 Application

Design a website based on an IMDB movie dataset which can let users search the top-rated movies with user's preference There are two types of users, one is the normal users, the other is directors. All users can use the search function, for example, find out what the movies and TV series ratings are and other searching usages.

For normal audiences, they can add their favorite movie, actor, director, and genre to their list. and the web will recommend some high rating movies or some TV series having high related to their favorite movies.

For directors and writers, they can add the newest movies that they have produced. Also, the system will list some movies which are related to the director's movies and tell the user these movies may become its competitor.

3 Functionality

There will be multiple functions and queries about searching the movies including basic search options. For instance, We can set the minimum rating of the movie or search the movie with specific directors/writers.

1. **Registration**: Allow users to create accounts. Creating new account will need to fill in the username and password and require them to fill their first name, second name,

email, birthdate and whether they are directors or not. Furthermore, the new users should at least specify 3 genres or movies to help the recommendation works. The username should be unique for each user.

2. **Login**: Users can use the username and password to login to access their personal favorite movies.

3. **Rating movies**: Users can rate the movies and set their favorite genres.

4. **Movie Recomemndation**: After Users login into their account, the website will randomly recommends the fittest movies for them depending on genres and movies they have already seen and the information of the users

5. **For director-only**: Add new movie into database.

For all users - Query

- Search the highest rate movies

- Search the movies with specific *startDate*

- Search the movies with specific *endDate*

- Search the movies with specific *genre*

- Search the movies with specific *actors*

- Search the movies with specific *director*

The website will also calculate the average rating of actors and directors depending on the movies they have produced. As I mentioned above, there are some utilities for directors and normal users, and these will be implemented into my project too.

4 Data, DBMS, Language

Data: IMDB movie dataset, I get it from https://www.imdb.com/interfaces/. I'm going to use five tsv data on the website.
DMBS: MySQL
Language: HTML + CSS + php

5   Interface Design

The website will have two pages, landing page, and the searching/result page On the landing page, users have to log in or create a new account for accessing the website. After logging into their account, then the user can start accessing the database through the search bar. There may have some random recommendation of movie/ TV series on the top or bottom in the landing page also.

6   Scope

I'll implement the functionality that I have mentioned above, including the basic search function and some advanced search options. Also, the authority of accessing specific utility between normal users and directors will be decided using the login data. There are some additional features that I want to implement. One is adding the movie trailer and introduction to each movie and TV series. Another is to connect to the IMDB website to update the database weekly since there will be new films and ratings every week.