

Movie Database Management System

Software Requirements:

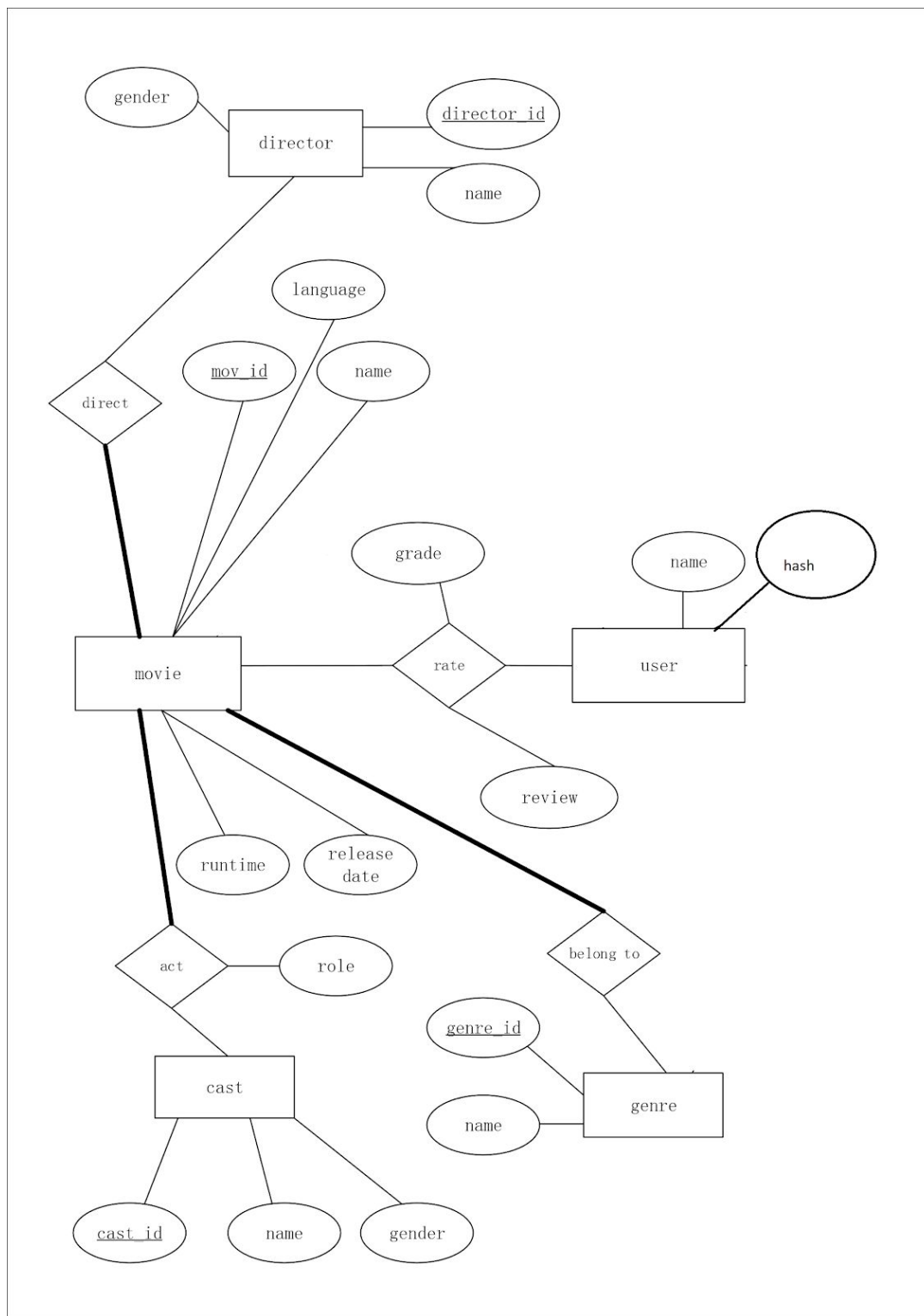
- PostgreSQL v12.0
- HTML
- CSS
- Flask
- Python v3.7

User Flow:

A user can search for movies in the website and see the details of the movie (such as director, runtime, cast etc.) From there, users can navigate to view each actor's or director's details directly and view the list of the movies they're involved in.

A user can rate any movie and comment on it if he has registered on the website. An already registered user can use the sign-in option.

ER Diagram:



Modules:

Triggers:

Trigger for removing all instances of movie in all tables when user deletes from Movie table

Trigger for removing all instances of a users review when user is deleted.

Methods:

Search to search movies from database

Movie to extract movie details from database

Director to extract director details from database

Actor to extract actor details from database

Login and logout methods to maintain users

Register method to register users. Password are stored in hashed form.

Lessons Learnt:

- To apply the concepts learned in class on the given database.
- Understood the need of concepts like Triggers, Procedures in a real-world application.
- Understood how to model and establish relationships between datasets.
- Moving to a new environment (PostgreSQL) was a challenging.
- Able to choose the necessary data values in the given data domain.

Future Work:

- To improve the user experiences.
- Introduce more options for the users such as request to add a movie.
- Use the same dataset to recommend movies based on genre and user ratings.
- Establish links to streaming services for any movie.

Screenshots:

LMDB

Register Log In

Search for a movie!

Star Wars

Search

LMDB

Register Log In

Movie Name: Terminator 2: Judgment Day

Date Released: 1991-07-01

Summary: Nearly 10 years have passed since Sarah Connor was targeted for termination by a cyborg from the future. Now her son, John, the future leader of the resistance, is the target for a newer, more deadly terminator. Once again, the resistance has managed to send a protector back to attempt to save John and his mother Sarah.

Director

[James Cameron](#)

Cast:

[Pete Schrum](#) as Lloyd

[Castulo Guerra](#) as Enrique Salceda

[Sven-Ole Thorsen](#) as Mall Security Guard (uncredited)

[Arnold Schwarzenegger](#) as The Terminator

[Scott Shaw](#) as Cyberdyne Tech (uncredited)

[Van Ling](#) as Cyberdyne Tech

[Mike Muscat](#) as Moshier

[Ken Gibbel](#) as Douglas

[Colin Patrick Lynch](#) as Attendant

[Charles A. Tamburro](#) as Police Chopper Pilot

[Mark Christopher Lawrence](#) as Burlly Attendant

[Randy Walker](#) as SWAT Officer (uncredited)

[Richard Ruskin](#) as Frisbee Player (uncredited)

[Nikki Cox](#) as Girl

[Jenette Goldstein](#) as Janelle Voight

Create your account

Register

Log in or [create an account](#)

Log In

Name: Leonardo DiCaprio

Movies:

- [The Quick and the Dead](#)
- [Total Eclipse](#)
- [Revolutionary Road](#)
- [Catch Me If You Can](#)
- [The Beach](#)
- [The Aviator](#)
- [The Departed](#)
- [Don's Plum](#)
- [Django Unchained](#)
- [What's Eating Gilbert Grape](#)
- [Marvin's Room](#)
- [The 11th Hour](#)
- [Hubble 3D](#)
- [Titanic](#)
- [The Great Gatsby](#)
- [Critters 3](#)
- [Shutter Island](#)
- [Inception](#)
- [The Basketball Diaries](#)
- [Body of Lies](#)

Name: Christopher Nolan

Movies:

- [The Dark Knight Rises](#)
- [Insomnia](#)
- [Inception](#)
- [Doodlebug](#)
- [Memento](#)
- [Dunkirk](#)
- [Batman Begins](#)
- [Interstellar](#)
- [The Prestige](#)
- [The Dark Knight](#)
- [Following](#)