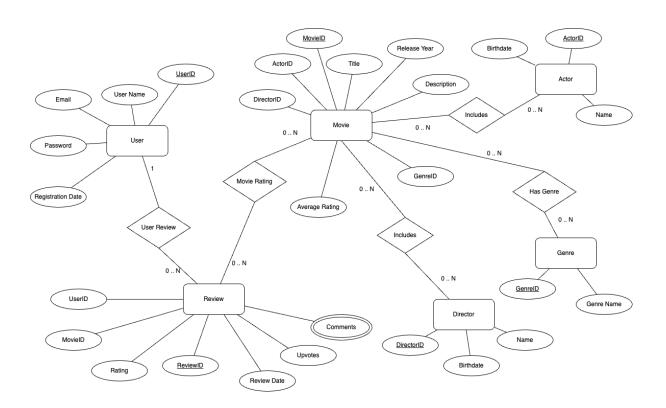
DBMS Project

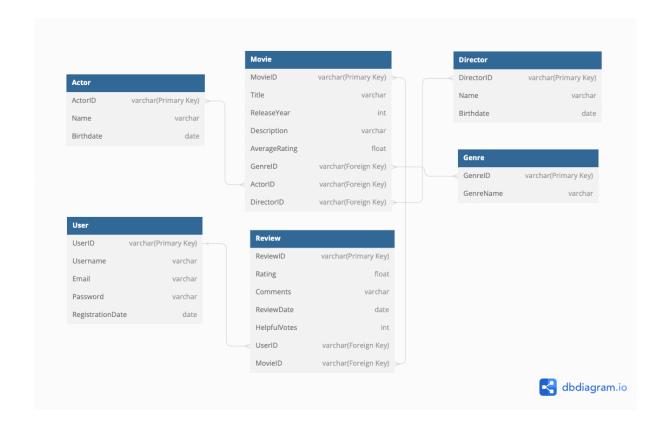
Movie Review System

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ER Diagram



Relation Schema



The queries used to make the tables:

```
CREATE TABLE UserDB (
    UserID INT AUTO_INCREMENT PRIMARY KEY,
    Username VARCHAR(50) NOT NULL,
    Email VARCHAR(255) NOT NULL,
    Password VARCHAR(255) NOT NULL,
    RegistrationDate TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);

CREATE TABLE GenreDB (
    GenreID INT AUTO_INCREMENT PRIMARY KEY,
    GenreName VARCHAR(50) NOT NULL
);

CREATE TABLE ActorDB (
    ActorID INT AUTO_INCREMENT PRIMARY KEY,
```

```
Name VARCHAR(100) NOT NULL
);
CREATE TABLE DirectorDB (
  DirectorID INT AUTO INCREMENT PRIMARY KEY,
  Name VARCHAR(100) NOT NULL
);
CREATE TABLE MovieDB (
  MovieID INT AUTO_INCREMENT PRIMARY KEY,
  Title VARCHAR(255) NOT NULL,
  ReleaseYear INT NOT NULL,
  Description TEXT,
  AverageRating DECIMAL(3, 2),
  GenreID INT,
  ActorID INT,
  DirectorID INT,
  FOREIGN KEY (GenreID) REFERENCES Genre(GenreID),
  FOREIGN KEY (ActorID) REFERENCES Actor(ActorID),
  FOREIGN KEY (DirectorID) REFERENCES Director(DirectorID)
);
-- Create the Review Table
CREATE TABLE ReviewDB (
  ReviewID INT AUTO INCREMENT PRIMARY KEY,
  Rating INT NOT NULL,
  Comments TEXT,
  ReviewDate TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
  UserID INT.
  MovieID INT,
  FOREIGN KEY (UserID) REFERENCES User(UserID),
  FOREIGN KEY (MovieID) REFERENCES Movie(MovieID)
```

);

```
Stored Procedure and trigger:
```

(7, 'Fantasy'),

```
DELIMITER //
CREATE PROCEDURE Reviews(IN movie_title VARCHAR(255))
BEGIN
SELECT u. Username, r.Rating, r.Comments, r.ReviewDate
FROM ReviewDB r
JOIN UserDB u ON r.UserID = u.UserID
JOIN MovieDB m ON r.MovieID = m.MovieID
WHERE m.Title = movie_title;
END;
//
DELIMITER //
CREATE TRIGGER update_average_rating
AFTER INSERT ON ReviewDB
FOR EACH ROW
BEGIN
UPDATE MovieDB m
SET AverageRating = (
SELECT AVG(Rating)
FROM ReviewDB r
WHERE r.MovieID = NEW.MovieID
WHERE m.MovieID = NEW.MovieID;
END;
//
DELIMITER;
Some of the inputs to the tables using python:
******
genres data = [
  (1, 'Thriller'),
  (2, 'Action'),
  (3, 'Drama'),
  (4, 'Crime'),
  (5, 'Sci-Fi'),
  (6, 'Romance'),
```

```
(8, 'War'),
1
for genre in genres data:
  cursor.execute("INSERT INTO GenreDB (GenreID, GenreName) VALUES (%s,
%s)", genre)
actor = [
  (114, "Matthew McConaughey"),
  (115, "Jamie Fox"),
  (116, "Michael J Fox"),
  (117, "Arnold Schwarzenegger"),
  (118, "Harrison Ford")
1
for act in actor:
  cursor.execute("INSERT INTO ActorDB (ActorID, Name) VALUES (%s, %s)", act)
director_data = [
  (201, 'Christopher Nolan'),
  (202, 'Robert Zemeckis'),
  (203, 'Frank Darabont'),
  (204, 'Quentin Tarantino'),
  (205, 'Lana Wachowski'),
  (206, 'James Cameron'),
  (207, 'Francis Ford Coppola'),
  (208, 'Steven Spielberg'),
  (209, 'Peter Jackson'),
  (210, 'Jonathan Demme'),
  (211, 'Michel Gondry')
1
for director in director data:
  cursor.execute("INSERT INTO DirectorDB (DirectorID, Name) VALUES (%s, %s)",
director)
*****
```

```
movies data = [
```

(str(random.randint(1000, 9999)), 'Interstellar', 2014, 'A space exploration epic', 1, 114, 201),

(str(random.randint(1000, 9999)), 'Back to the Future', 1985, 'An iconic time-travel adventure', 2, 116, 202),

(str(random.randint(1000, 9999)), 'The Green Mile', 1999, 'A supernatural drama', 3, 103, 203),

(str(random.randint(1000, 9999)), 'Django Unchained', 2012, 'A western film by Quentin Tarantino', 4, 115, 204),

(str(random.randint(1000, 9999)), 'The Revenant', 2015, 'A survival drama film', 2, 101, 212),

(str(random.randint(1000, 9999)), 'The Terminator', 1984, 'A classic sci-fi film', 5, 117, 206),

(str(random.randint(1000, 9999)), 'Indiana Jones and the Raiders of the Lost Ark', 1981, 'An adventure film', 8, 118, 208)

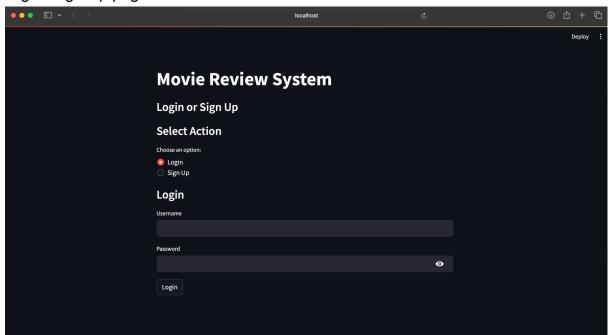
for movie in movies data:

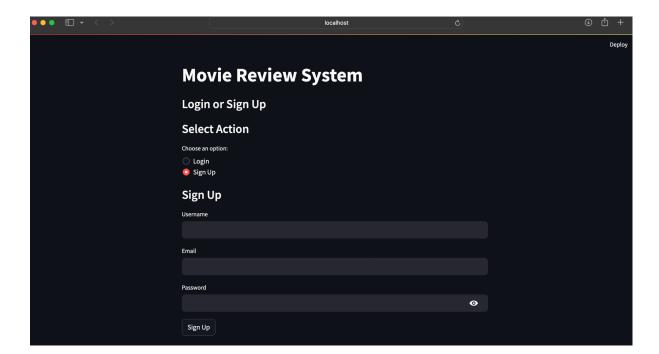
cursor.execute("INSERT INTO MovieDB (MovieID, Title, ReleaseYear, Description, GenreID, ActorID, DirectorID) VALUES (%s, %s, %s, %s, %s, %s, %s, %s, %s, %s)", movie)

db.commit()

Some screenshots:

Login/ Sign Up page:

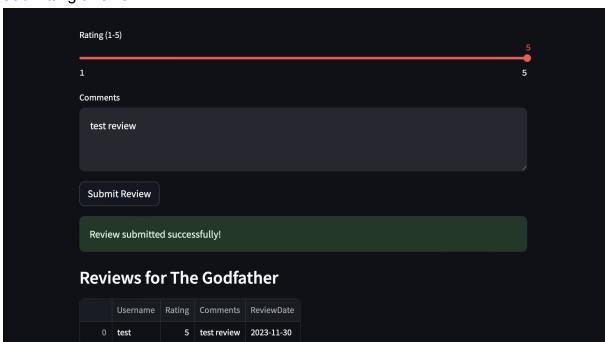




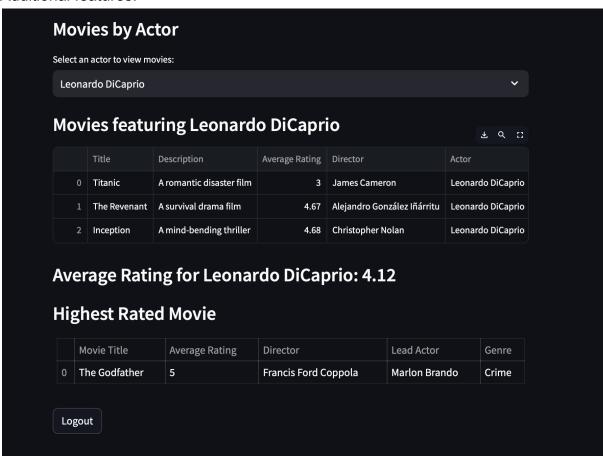
The main page:

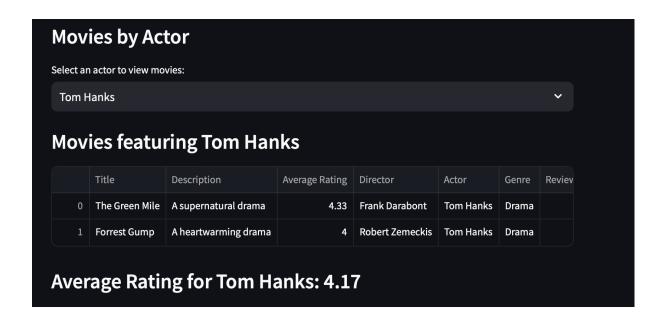


Submitting a review:

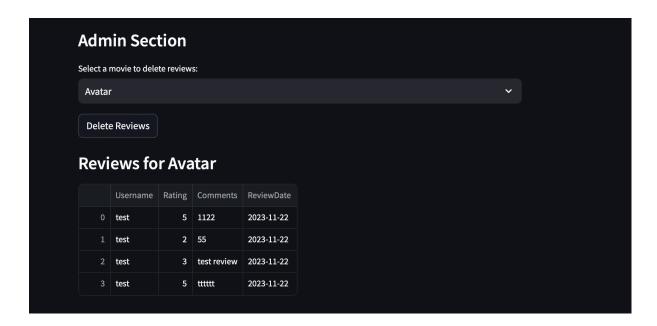


Additional features:





Admin Section:



Deleting reviews:

