System Architecture

Group Members

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Project Name

影片串流平台管理系統 (Movie Streaming Platform Management System)

System Functionalities

1. User Management

- Registration: New users can register by providing necessary details such as password and phone.
- Authentication: Users can log in using their usr_id and password.
- Profile Management: Users can update their profile details.

2. Movie Management

- Add New Movies: Admins can add new movies with details like title, description, release year, and rating.
- Update Movie Details: Admins can update movie information.
- Delete Movies: Admins can remove movies from the database.

3. Subscription Management

- Subscribe: Users can subscribe to different plans with specific start and end dates.
- View Subscriptions: Users can view their current and past subscriptions.
- Cancel Subscription: Users can cancel their ongoing subscriptions.

4. Rental Management

- Rent Movies: Users can rent movies by specifying the start and end dates.
- View Rentals: Users can view their current and past rentals.

5. Review Management

- Add Reviews: Users can review movies by providing rating, comment, and date.
- · Edit Reviews: Users can update their reviews.
- · Delete Reviews: Users can remove their reviews.

6. Genre Management

- Add Genres: Admins can add new genres to the database.
- Assign Genres to Movies: Admins can categorize movies by assigning genres.
- View Genres: Users can view the list of available genres.

7. Search and Browse

- Search Movies: Users can search for movies based on title, description, rel_year, rating, and genre.
- Browse by Genre: Users can browse movies categorized under different genres.

Programming Languages

Python, SQLite (Backend) + HTML/CSS/Javascript (Frontend)

Development Stack

SQLite + Flask

System Modules

Here are the main system modules for the Movie Streaming Platform Management System, along with a brief description of their functionalities:

1. User Management Module

- **Registration**: Handles user sign-up by collecting details such as username, password, and phone number.
- · Authentication: Manages user login and logout functionality.
- Profile Management: Allows users to view and update their profile information.

2. Movie Management Module

- Add Movie: Admins can add new movies with details like title, description, release year, and rating.
- **Update Movie**: Admins can update information of existing movies.
- **Delete Movie**: Admins can remove movies from the database.
- **View Movie**: Users can view details of movies, including title, description, release year, rating, and genre.

3. Subscription Management Module

- Subscribe: Users can subscribe to different plans specifying the start and end dates.
- View Subscriptions: Users can view their current and past subscription details.

• Cancel Subscription: Users can cancel their active subscriptions.

4. Rental Management Module

- Rent Movie: Users can rent movies by specifying the start and end dates.
- View Rentals: Users can view their current and past rentals.

5. Review Management Module

- Add Review: Users can add reviews for movies by providing a rating, comment, and date.
- **Update Review**: Users can edit their reviews.
- Delete Review: Users can delete their reviews.
- View Reviews: Users can view all reviews for a particular movie.

6. Genre Management Module

- Add Genre: Admins can add new genres to the database.
- **Update Genre**: Admins can update genre information.
- Assign Genre to Movie: Admins can assign one or multiple genres to movies.
- View Genres: Users can view a list of available genres.

7. Search and Browse Module

- **Search Movies**: Users can search for movies based on title, description, release year, rating, and genre.
- Browse by Genre: Users can browse movies categorized under different genres.