# Project Description

## Group Members

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## Project Name

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

## Project Description

　　The Movie Streaming Platform Management System is designed to manage a comprehensive database for a movie streaming service. This system handles various aspects of user interactions, movie management, subscriptions, rentals, reviews, and genres. The main goal is to provide an efficient way to store, retrieve, and manage data related to a streaming service, ensuring seamless user experience and effective data management.

## Data Requirement Analysis

1. Users

- usr_id (Primary Key)
- password
- phone

2. Movies

- mov_id (Primary Key)
- title
- description
- rel_year (Release Year)
- rating

3. Subscriptions

- sub_id (Primary Key)
- start
- end
- plan
- usr_id (Foreign Key referencing Users.usr_id)

4. Reviews

- rev_id (Primary Key)
- rating

- comment
- date
- usr_id (Foreign Key referencing Users.usr_id)
- mov_id (Foreign Key referencing Movies.mov_id)

5. Genres
- gen_id (Primary Key)
- name

6. Rents
- usr_id (Primary Key, Foreign Key referencing Users.usr_id)
- mov_id (Primary Key, Foreign Key referencing Movies.mov_id)
- start
- end

7. Movie Genres
- mov_id (Primary Key, Foreign Key referencing Movies.mov_id)
- gen_id (Primary Key, Foreign Key referencing Genres.gen_id)

## System Functionality Analysis

The system provides the following key 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.

These functionalities ensure a robust and user-friendly platform for managing a movie streaming service, providing an efficient way to handle various data operations.