# CS 5200 Project Proposal

Team name: LinLWengP
Team members: Peicong Weng, Lidong Lin

## Project Description

The Movie Personal Management System is a web application developed using MySQL database and Workbench, aimed at providing users with a convenient way to manage and browse movies. The core functionalities of the system include creating movies, searching movies, liking movies, commenting on movies, and adding movies to favorites. Users can register and login to the system to use all functionalities, or they can browse the public pages to view movie information.

When creating a movie, users can input movie title, description, director, cast, genre, and tags, among other details. Once created, the movie will be stored in the MySQL database and can be viewed on the movie list page. Users can search for movies using keywords and filter them by different categories and tags. On the movie page, users can browse the movie's detailed information and like or comment on it. Users can also add movies to their favorites to easily access them later.

## Software

The system will be developed using Python programming language and Django framework. Data storage will be done using MySQL database and Workbench.

The project aims to provide users with a convenient way to manage and browse movies, while also providing developers with practical web application development experience. Through this project, users can easily create, search, comment, like, and favorite movies, while we can learn and practice basic knowledge and skills in web application development using Django framework and MySQL database. Ultimately, the system will provide a powerful, user-friendly, and secure platform for movie management and browsing.

## Why Does This Interest Us

One reason we might be interested in this project is that it provides practical experience in web application development using Django and MySQL database. Developing a movie personal management system involves creating a database schema, designing and implementing user interface, implementing business logic, and deploying the system on a web server. All of these activities can help the developer gain practical experience in web application development.

Another reason we might be interested in this project is that it provides a useful tool for movie enthusiasts to manage and browse movies. The system allows users to easily create, search, comment on, like, and favorite movies, making it a convenient and user-friendly platform for movie management and browsing.

Finally, someone we are interested in this project because it can be extended to add new features or integrate with other movie-related services, such as movie reviews or movie streaming services. This can provide additional opportunities for learning and development while also creating a more powerful and comprehensive movie management platform.

## Technical description

The personal movie management system is a web application built using the Django framework and MySQL database. It allows users to manage their movie collections, including titles, directors, genres, ratings, comments, and posters. Users can access the system by registering and logging in, and the system can recommend movies based on their preferences. Additionally, users can add movies to their "watchlist" or "watched" lists to keep track of their progress.

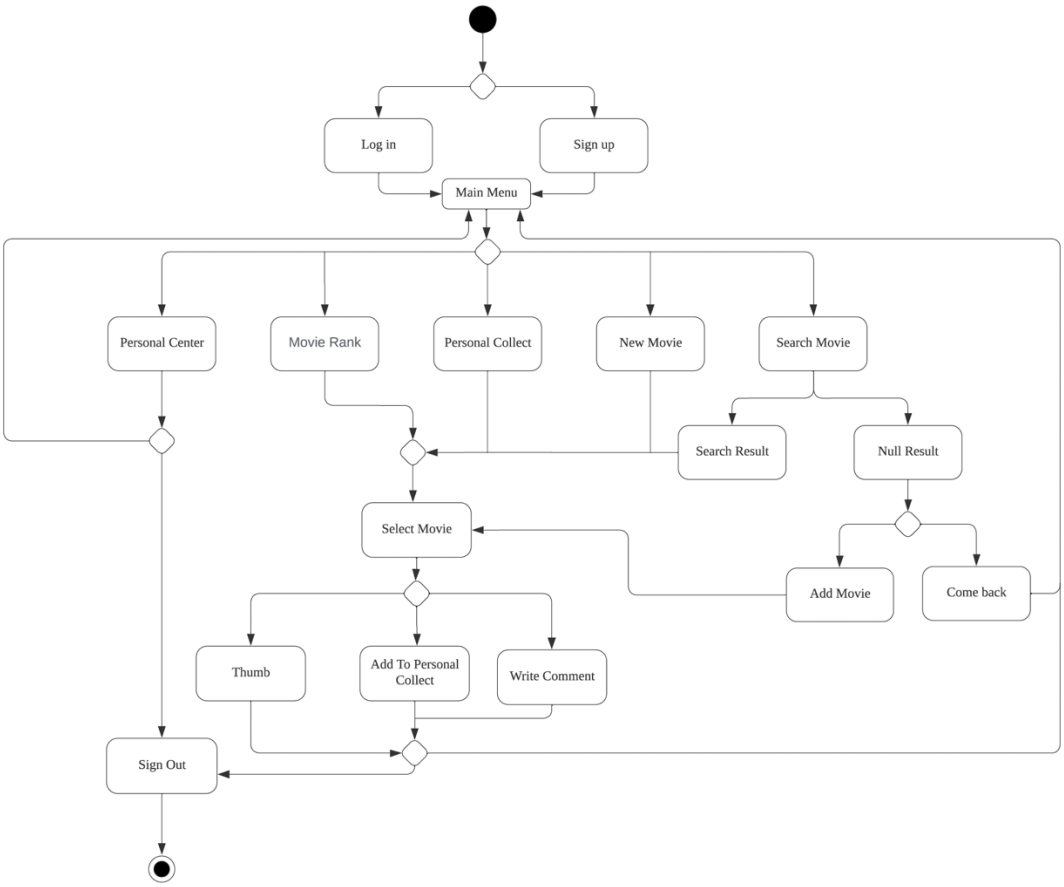
By using the Django template language, the system can generate dynamic HTML pages based on user requests and retrieve data from the database. The system uses the Django form framework to handle user-submitted data, validate it, and store it in the MySQL database.

For the database, the system uses MySQL as its persistent data storage mechanism. MySQL provides a robust relational database management system that allows the system to store user data and supports efficient queries and data retrieval. The database of the system includes multiple tables, such as user table, movie table, and user-movie relationship table, which are used to store user data, movie data, and user-movie relationship data, respectively.

Furthermore, the system uses MySQL Workbench to design and manage the database. MySQL Workbench is a visual tool that can help developers design and maintain MySQL databases and provides various features, such as modeling, querying, and backup.

In summary, the personal movie management system is a web application based on Django and MySQL that aims to help users manage their movie collections. It features good user experience, data storage, and management capabilities and can provide users with efficient, convenient, and enjoyable movie management experiences.

## Activity Diagram



# UML Diagram

Model::Main