



Department of Computer Science & Engineering

UE17CS355 - Web Tech II Laboratory

# Project Evaluation

Project Title : Movie Recommendation System  
Project Team : PES1201700798 - Lavanya L  
PES1201700048 - S Sriya  
PES1201700261 - Bhavya B



## Project Description

- The project is a movie recommendation system based on the user ratings.
- The user can login to the website and add ratings to the movies they like/dislike.
- The application then customizes and recommends movies based on their interests.





## Technologies Used

- **React - Frontend Framework**

React is component based javascript library used for building user interfaces

- **Flask - Backend Framework**

Flask is a lightweight microframework in python used as backend server for web applications.

- **Sklearn - cosine\_similarity and count vectorization**

Python libraries to train and deploy the machine learning model which is used to recommend the movies.

- **Sqlite3** for the database management



## Techniques Implemented

- **Multistage Download**

As the user adds rating to the movies, it's not possible to show all of the recommended movies in one go. Hence the faster and more important content like text will appear first and then the recommended and rated movies will appear on screen to the user.

- **RESTful APIs**

Communication with flask is through series of REST API's. The flask server has specified endpoints called by the React App and data is transmitted in an effective manner.







## Intelligent Functionality

### Recommendation system:

- The intelligent functionality of the website is the recommendation of movies based on the users liking.
- After logging in the user rates the movies displayed on the homepage on a scale of 1 to 5.
- The recommendation system uses content based filtering.
- Each movie is converting into a vector based on the genre, director, cast and plot.
- Using cosine similarity the similar movies related to the user's liking is displayed on the webpage.



Thank You

