

Parshvanath Charitable Trust's

A. P. SHAH INSTITUTE OF TECHNOLOGY, THANE

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Department of Information Technology



Movie Recommendation System

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1. Introduction

• Everyone enjoys watching movies and finding a good movie to watch can be tedious because of the wide variety of genres and movies that are available today.

• Problem Identified:

• Identify movies that the user wants to watch and facility to recommend relative movies.

• Solution Proposed :

• To build a movie recommendation system that uses keywordsearching and filtering options to recommend movies.

2. Objectives

- 1. To recommend variety of movies to user.
- 2. To provide variety of genres for user to explore.
- 3. To provide accurate movie recommendations to users.
- 4. To enhance user experience.

3. Scope

Can be applied to provide accurate movie recommendations to users.

• Can be used in OTT platforms to improve accuracy.

• Can be used in social networking platforms.

4. Literature Survey

- 1. In [Paper 1] (2019), it was proposed that a movie recommender system can be built using the K-Means Clustering and K-Nearest Neighbor algorithms. Proposed system also deals with various concepts related to artificial intelligence machine learning and recommendation system.
- 2. In [Paper 2] (2020), it was proposed that although varieties of methods are used to implement a recommendation system, Content-based filtering is the simplest method. Which takes input from the users, rechecks his/her history/past behavior, and recommends a list of similar movies.
- 3. In [Paper 3] (2015), it proposed a recommendation algorithm called STPMF based on neighborhood model and matrix factorization model because traditional collaborative filtering approaches are often confronted with two major problems: data sparsity and cold-start.

5. Proposed System

1. Feature 1:

• Sign up/login to get access to the website. Confirmation mail for registration.

2. Feature 2:

 A search bar and watchlist option for user to find movies and add them to their watchlist.

3. Feature 3:

• Filter options such as genre and year to recommend more accurate movies for the user.

4. Feature 4:

 Liking and commenting option for movies along with movie trailers embedded.

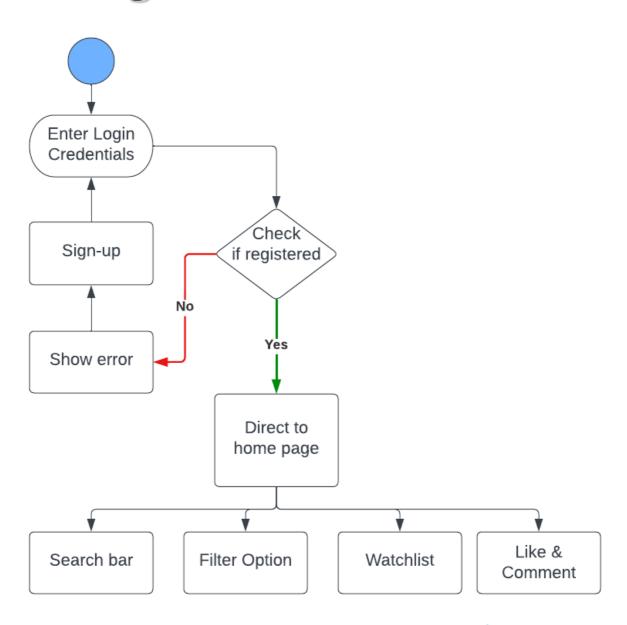
6. Outcome of Project

- 1. User can sign-up/login to the website.
- 2. User can search for movies using search bar.
- 3. User can add movies to watchlist.

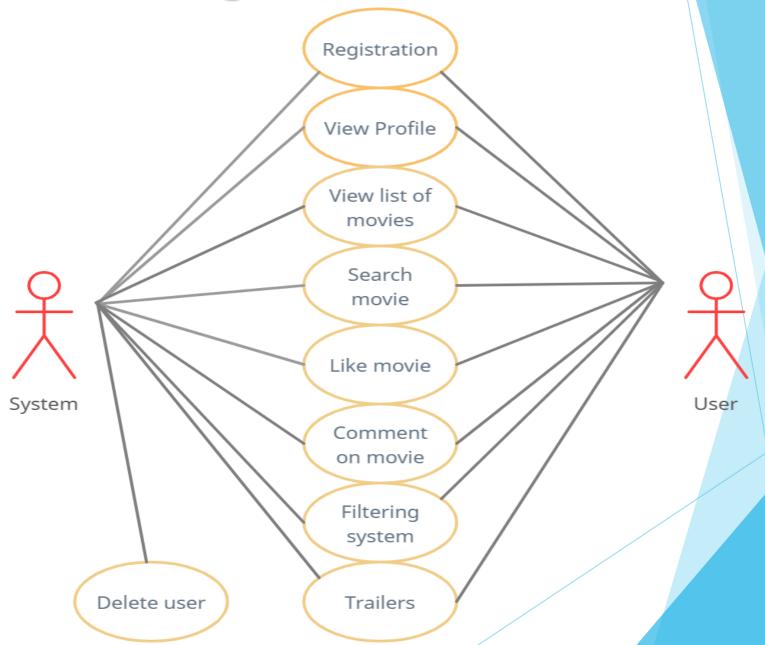
- 4. User can apply filters to get better recommendations.
- 5. User can like and comment on movies.

6. User can watch trailers for movies.

7. Block Diagram



8. Use Case Diagram



9. Technology Stack

• Frontend:

- o HTML
- o CSS
- React JS
- JavaScript

• Backend:

- o MongoDB
- o Node.js
- o Express.js

• <u>API:</u>

o IMDb

Suggestions in Review-1

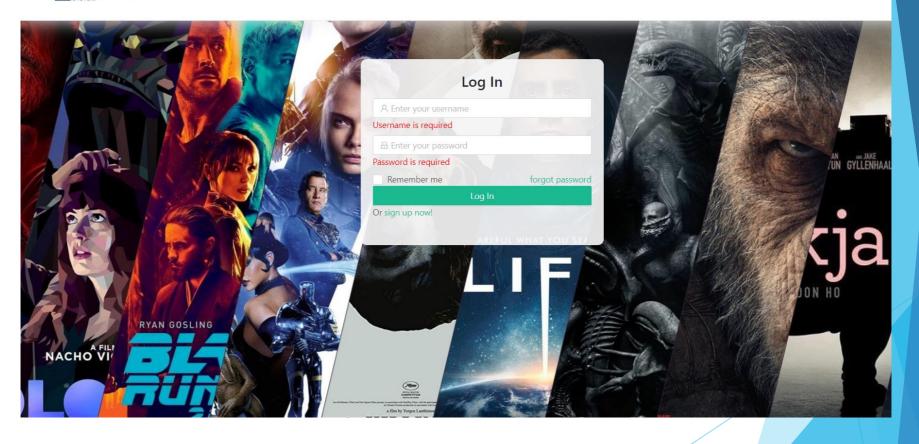
Registration/login:

New users will be able to register themselves to get access to the website. User can then login and use the website.

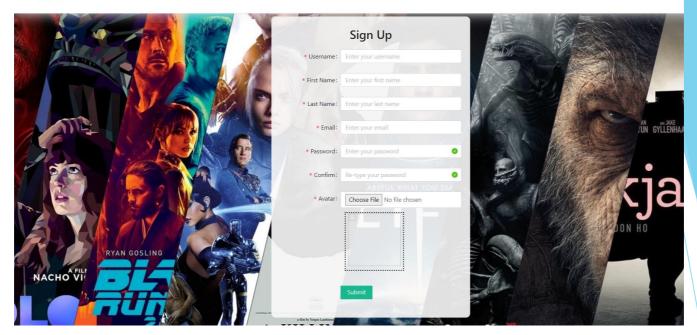
• Filtering system:

This feature will allow user to search for movies more accurately by specifying year, genre and rating.

Result and Discussion







MOVIE RECOMMENDATION SYSTEM

Watchlist

Welcome yogesh 😕 Users 🕒 Log Out

Log In €

Sign Up 🙎



Q Search Movies

Most Popular Movies













Q Search Movies



Most Popular Movies





Welcome Yogesh

G Log Out





HIDE CAST







Rupert Grint Ron Weasley



Emma Watson Hermione Granger



Robbie Coltrane Rubeus Hagrid



Ralph **Fiennes** Lord Voldemort



Michael Gambon Albus Dumbledore





Watchlist

Welcome Yogesh

G Log Out

Share your opinions about Harry Potter and the Goblet of Fire



Yogesh 29/10/2022 - 17:48

write some comments



Recommended Movies





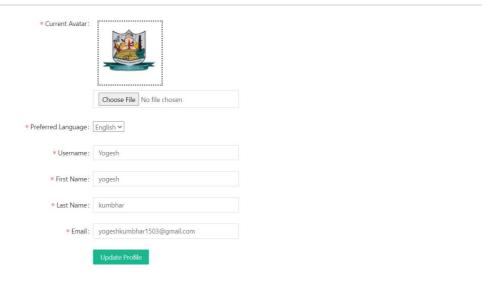


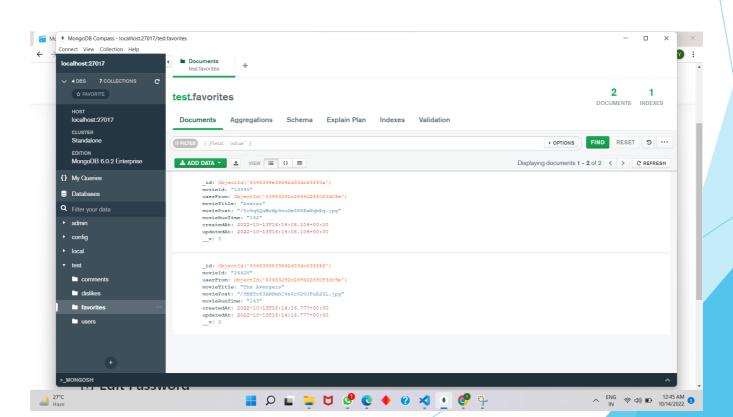






A Edit Profile





Conclusion and Future Scope

Movie Recommendation System gives registered users access to the home page and various features of the website like search bar, filter and watchlist. The user is able to get better recommendation using the filters. The method used in this project can be applied for other categories such as music, books and many more. Further, combining this system with artificial intelligence and machine learning, can give the user more enhanced experience by personalizing the recommendations to what the user likes.

References

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- [6] A Comprehensive Survey of Neighborhood-based Recommendation Methods | DOI: 10.1007/978-0-387-85820-3_4 | January 2010

Thank You...!!