

MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR (M.P)

(A Govt. Aided UGC Autonomous & NAAC Accredited Institution Under RGPV, Bhopal)



Minor Project – I

Session: July-December (2021)

Project Report on:

“Movie Review Website”

Submitted To:

Prof. Vikas Sejwar

Prof. **YOGESHWAR SINGH**

Submitted By:

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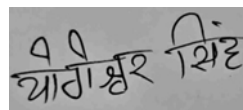
CERTIFICATE

This is to certify that Aayush Jain (0901IT191002) and Shivam Yadav (0901IT191056) minor project, " Movie Review Website " is a genuine record of a project completed under our supervision and guidance in partial fulfilment of the requirements for the award of a Bachelor of Technology in Information Technology in the Department of Information Technology, Madhav Institute of Technology and Science, Gwalior.



(Prof. Vikas Sejwar)

Mentor



(Prof. YOGESHWAR SINGH)

Mentor

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Abstract

In this age of paid promotion driven digital era many review-based content, products and services are mostly fake.

Starting with this project to create “Movies and Shows” Review Website which will assist end user in managing watchlist, Reviews, likes, suggestions and many more.

We aim improve this project to create a trustworthy website to provide users to search and review all kind of products and services from all sectors of business, startups to provide unbiased actual review from certified customers.

Introduction

We created this project to learn and experience the process of Designing, Developing and Analyzing Outcomes of a project and to learn new Tools and Technologies and implement concepts of Software Development Engineering required to develop this project.

Project aims and objectives

- This project aims to provide Search results for Movies and Shows to user.
- By signing up user can add movies to watchlist, Review, comment, like and rate Movies and Show.
- Inspired by **IMDB** (Internet Movie Database), we created IMDB look alike website.
- Creating project on virtual environment and applying Concepts of Web Development by using different libraries and user defined functions to provide functionalities to elements.
- Making request to API to fetch data and to store it on database and managing real time results.



System Analysis

System Objectives

The main objective of our web application is to optimize the search result for latest movies and shows, where user can add movies to watchlist, Review, comment, like and rate Movies and Show

System Architecture

- Project is created on virtual environment using Django Framework.
- Developed using Visual Studio Code IDE and hosted on local host.
- Website frontend is designed using Materialize CSS framework and linked to Movie Data using OMDb API.



System Specifications

Hardware Specification

Since the hardware's are the important part while developing a web project, its necessary to find hardware requirements.

Processor–

The minimum level of required processor for this platform is Pentium IV with 800 MHz processing speed. Since the time taken for processing the instruction depends on the processor power, so it is very important to choose the required processor.

RAM–

For higher speed of the processing, it also depends on the memory.

Therefore, for better performance minimum RAM should be 256 MB.

Storage–

In modern days, there is a vast amount of data is generated daily from the internet platforms. So, a good size of hard disk is required for the storage of the processed data.

Cache Memory–

Access time of the operation tasks mainly depends on the cache memory. Therefore, the minimum recommended cache memory is 2 MB.

Software Specification

Our system should meet following minimum specifications

OS — Windows 7 or later versions

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We will be using Django, Materialize CSS, HTML, CSS and Python technologies.

It is necessary to have python installed on the system and its modules such as:

- Pillow - working with images
- Requests - working with API's



Software Architecture

Architecture Overview

It defines fundamental organization of a system and more simply defines a structured solution. Since Django is based on MVT (Model-View-Template) architecture. We used this software design pattern for developing a web application.

Some important characteristics which are commonly considered during developing this project are:

1-Operational Architecture Characteristics:

| | | |
|----------------------------|---|------------|
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| 1. Availability | - | local host |
| 2. Performance | - | Fast |
| 3. Reliability | - | Medium |
| 4. Low fault tolerance | - | Yes |
| 5. Scalability | - | High |

2-Structural Architecture Characteristics:

| | | |
|--------------------|---|--------|
| 1. Configurability | - | High |
| 2. Extensibility | - | Medium |
| 3. Supportability | - | High |
| 4. Portability | - | Medium |
| 5. Maintainability | - | High |

3-Cross-Cutting Architecture Characteristics:

| | |
|------------------|----------|
| 1. Accessibility | - Medium |
| 2. Security | - High |
| 3. Usability | - Medium |
| 4. Privacy | - High |
| 5. Feasibility | - Medium |

1. Project is created on virtual environment using Django Framework.
2. Developed using Visual Studio Code IDE and hosted on local host.
3. Website frontend is designed using Materialize CSS framework and linked to Movie Data using OMDb API.

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Software Process Model

The Agile is used as Software process model. We used this model as it is very flexible to facilitate quick project completion.

To accomplish this task agility is required. Agility is achieved by fitting the process to the project, removing activities that may not be essential for a specific project. Also, anything that is wastage of time and effort is avoided.

System Design Details

GUI Description

Our interface is simple, consistent as we used common UI elements and Placed items interactively with attractive and right colour choice. The things which can be mostly searched by the users are presented so that the users need not to work to search for it

To make our Web App cross browser compatible, we used Materialize CSS template which supports various browsers identically.

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| |
|-----------------------------------------------------------------|
| Languages |
| ○ HTML, CSS, JavaScript, Python (v 3.9.0) Methods |
| ○ Concepts of Functional and Object-Oriented Programming |
| Tools |
| ○ Framework - Django (v 3.2.9) |
| ○ API - OMDb (Third Party) |
| ○ Database - SQLite (v 3) |



Design Details

UI and UX are attractive and subtle with handy Navigation Structure and Clear Search Focus for enhanced Speed and Performance and Scalable for different hardware with rich Security Deliberations

Processing within module -

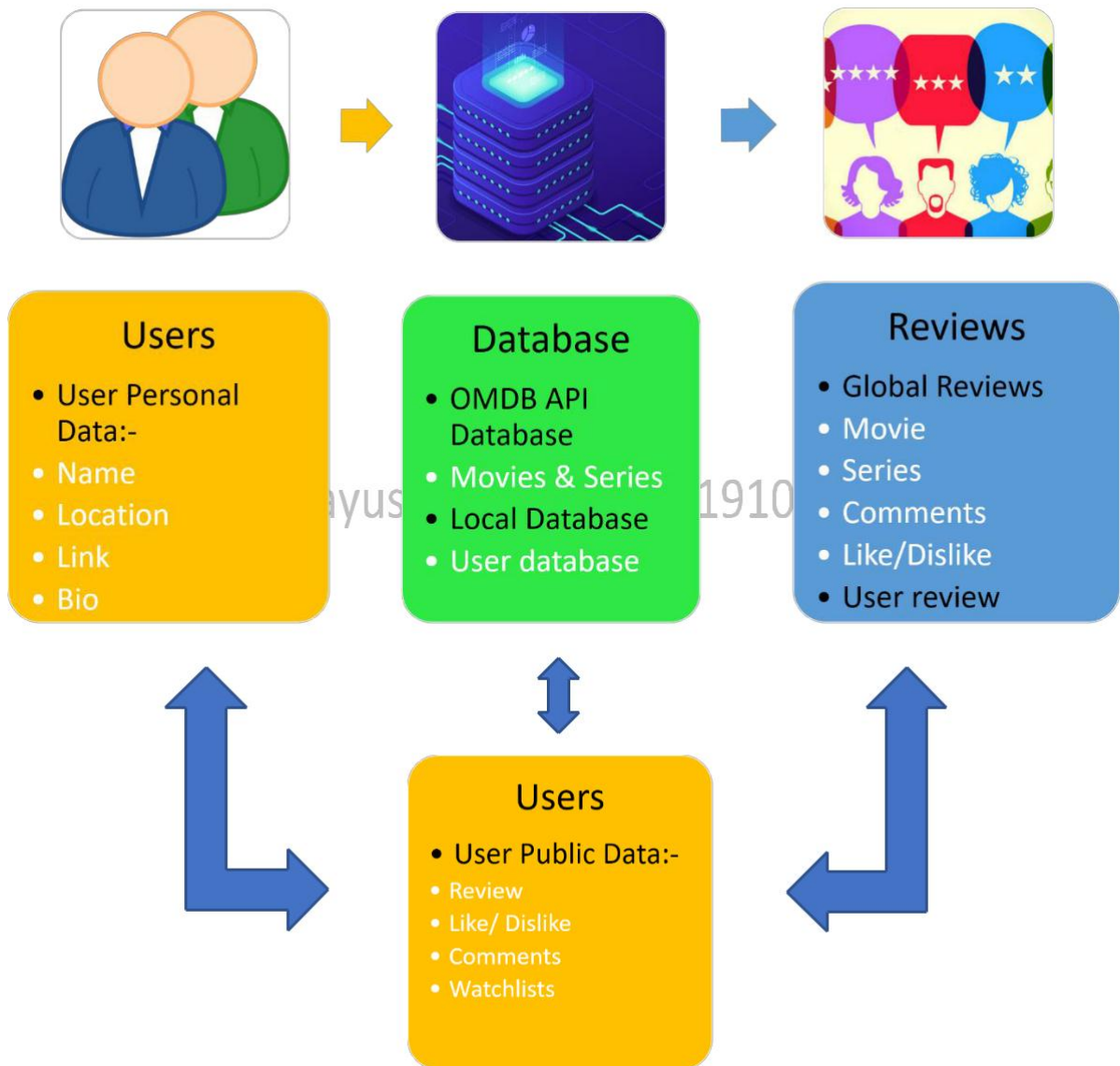
The python modules used for enhancing GUI are

- Pillow - For working with images
- Requests - For working with API's

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Flow Diagram



Working Process of Website

Testing

Testing of program is done to find error in the given program. It is one of the major steps in the software development process. It is the final step in the software development lifecycle

Testing Objectives

- Finding defects which may get created by the programmer while developing the software.
- Gaining confidence in and providing information about the level of quality.
- To prevent defects.
- To make sure that the end result meets the business and user requirements

Testing Techniques Used

1. Functionality Testing - The below are some of the checks that were performed:

- Verification of dead page or invalid redirects.
- Checked all the validations on each field.
- Wrong inputs to perform negative testing.
- Verified the workflow of the system.

2. Usability testing - To verify how the application is easy to use with.

- Tested the navigation and controls
- Content checking.
- Checked for user intuition.

3. Interface testing - Verified the interface and the dataflow from one system to other.

4. Compatibility testing- Is performed based on the context of the application.

- Browser compatibility
- Operating system compatibility
- Compatible to various devices like notebook, mobile, etc.

5. Performance testing - Performed to verify the server response time and throughput under various load conditions.

6. Security testing – Verified the application for security on web as data theft and unauthorized access are more common issues.



System Implementation and Maintenance

Implementation

To ensure the success of the system the implementation step is carried out. If the system is not properly implemented the well-defined system can fail. To transform information system to operational system implementation activities are used.

Hardware Software and Services:

The hardware and software used in the web application is:

- Hardware : Dell, Lenovo.
- Software : Microsoft Windows, Python, Django, VS code.



Maintenance

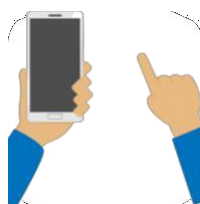
When the system is fully implemented, its maintenance is done. System maintenance is done to check whether the software system is performing well or not.

If there is any error then we have to remove it. Software Maintenance is the process of modifying a software product after it has been delivered to the customer. The main purpose of software maintenance is to modify and update software applications after delivery to correct faults and to improve performance.

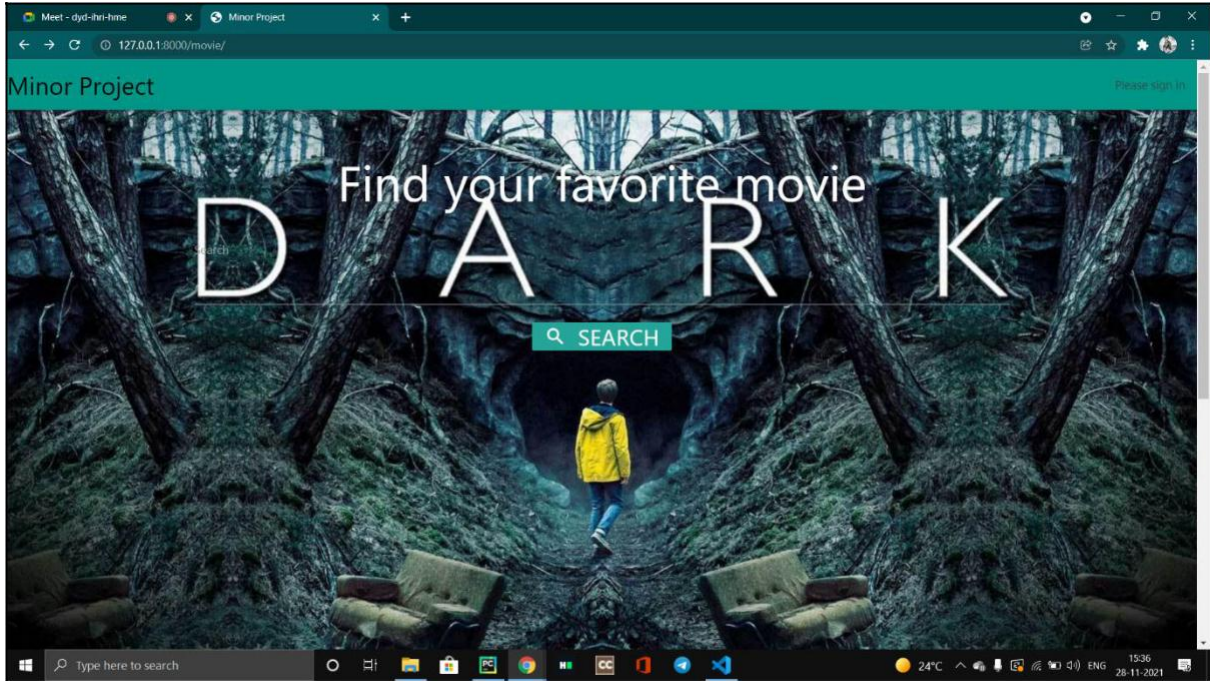
Our Need for Maintenance –

Software Maintenance must be performed in order to:

1. Correct faults.
2. Improve the design.
3. Implement enhancements.
4. Interface with other systems.
5. Accommodate programs so that different hardware, software, system features, and telecommunications facilities can be used.
6. Migrate legacy software.
7. Retire software.

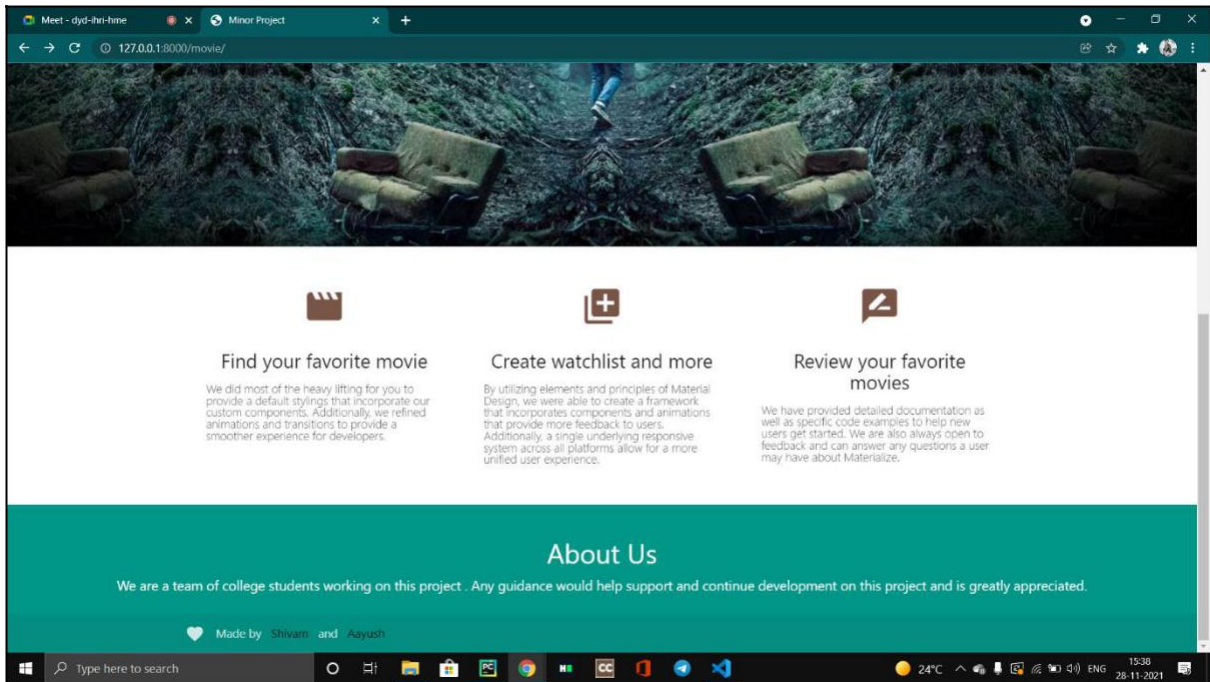


HOMEPAGE



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ABOUT WEBSITE



ACCOUNT PAGE

Minor Project

Please sign in

Create an account

Username

Email

First name

Last name

Password

Re-type password

▶ CREATE ACCOUNT

About Us

We are a team of college students working on this project . Any guidance would help support and continue development on this project and is greatly appreciated.

127.0.0.1:8000/movie/

Type here to search

24°C Sunny

15:59
28-11-2021

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LOGIN PAGE

Minor Project

Please sign in

Login

Username

Shivam

Password

.....

▶ LOGIN REGISTER

About Us

We are a team of college students working on this project . Any guidance would help support and continue development on this project and is greatly appreciated.

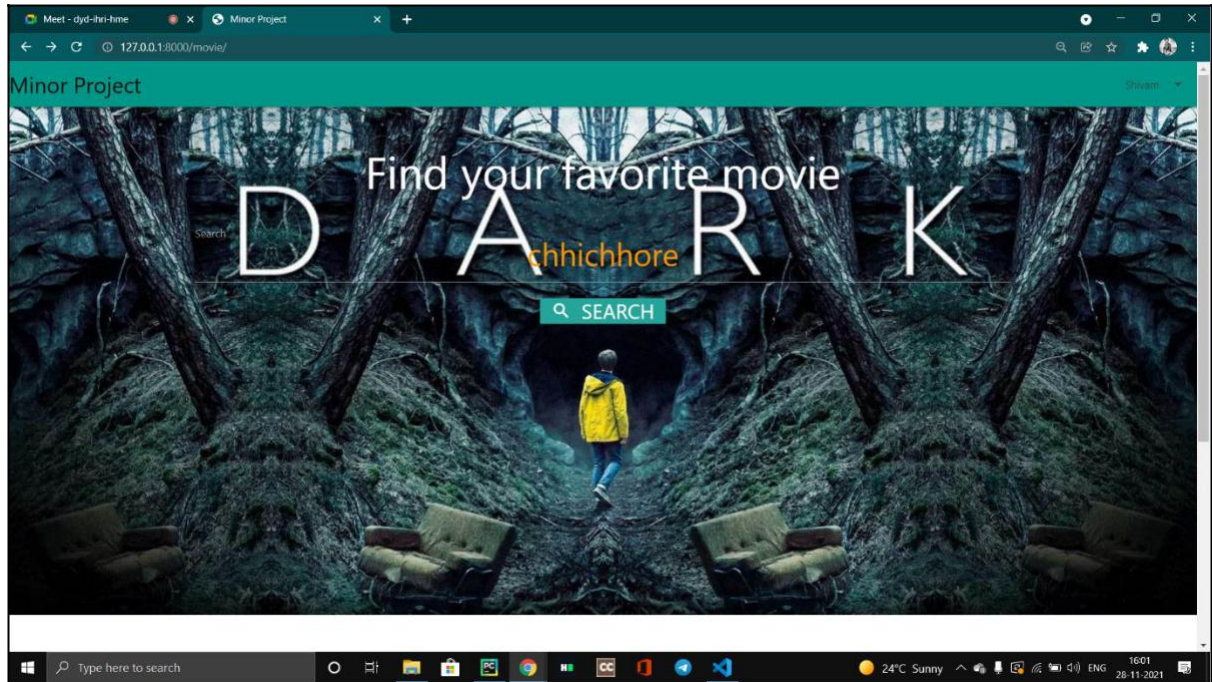
127.0.0.1:8000/account/login/

Type here to search

24°C

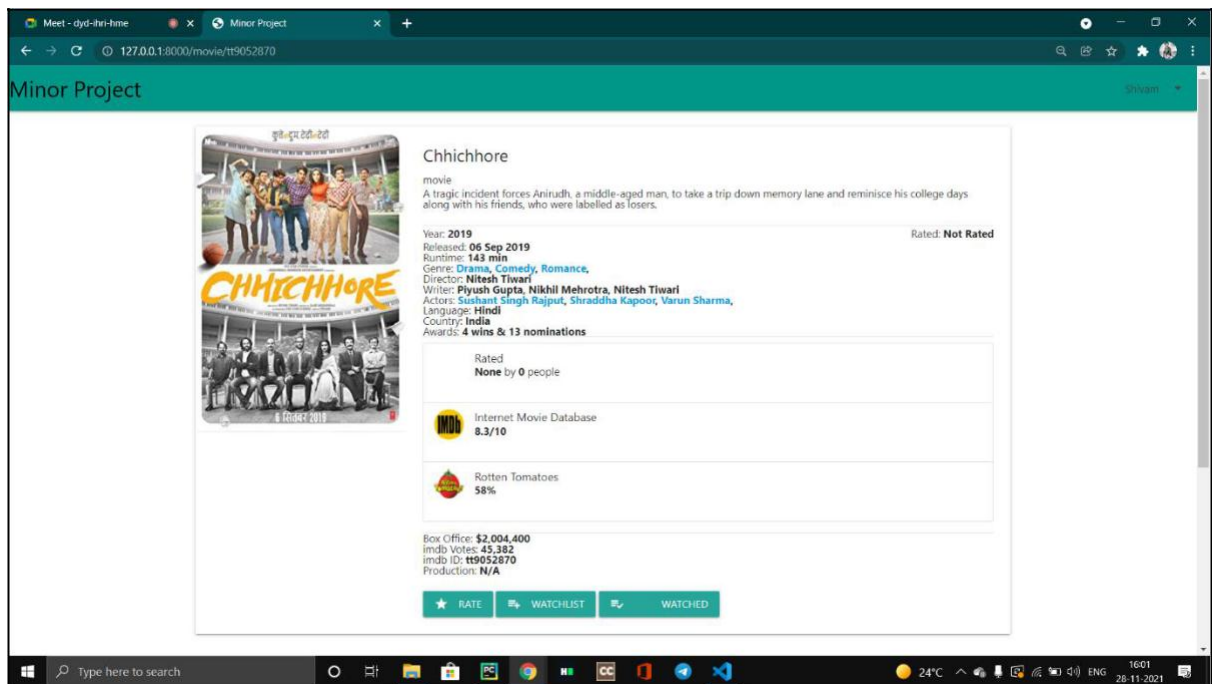
15:55
28-11-2021

SEARCH IN PROGRESS

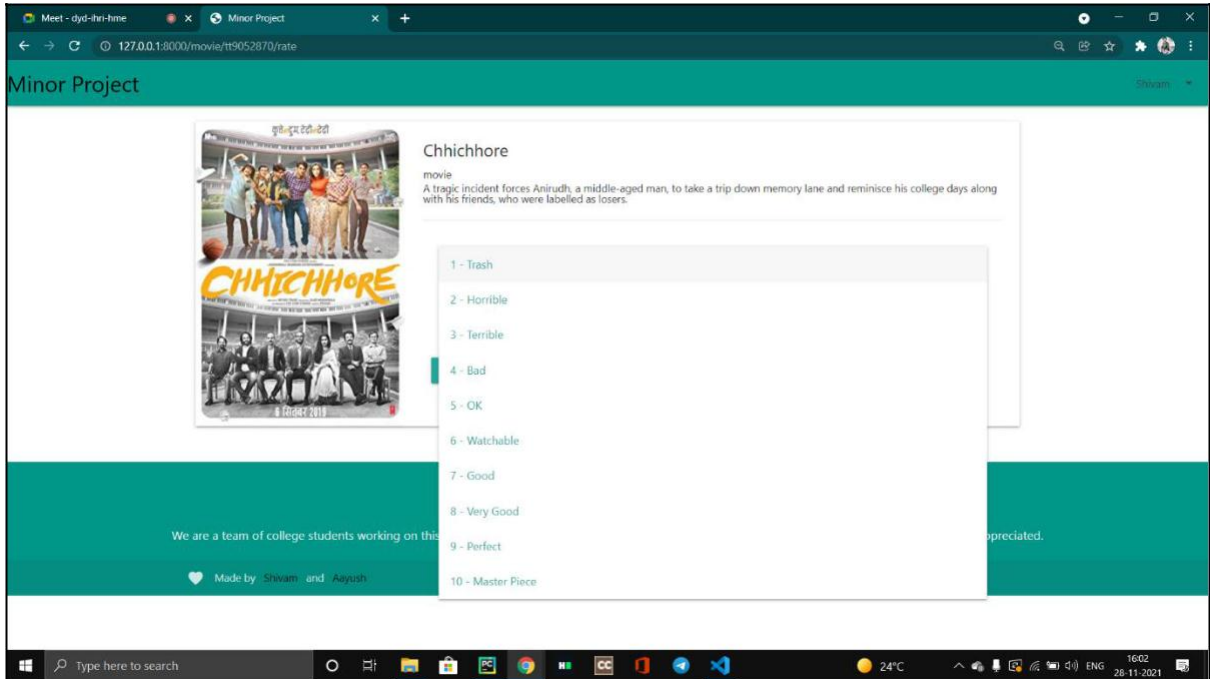


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SEARCH RESULT

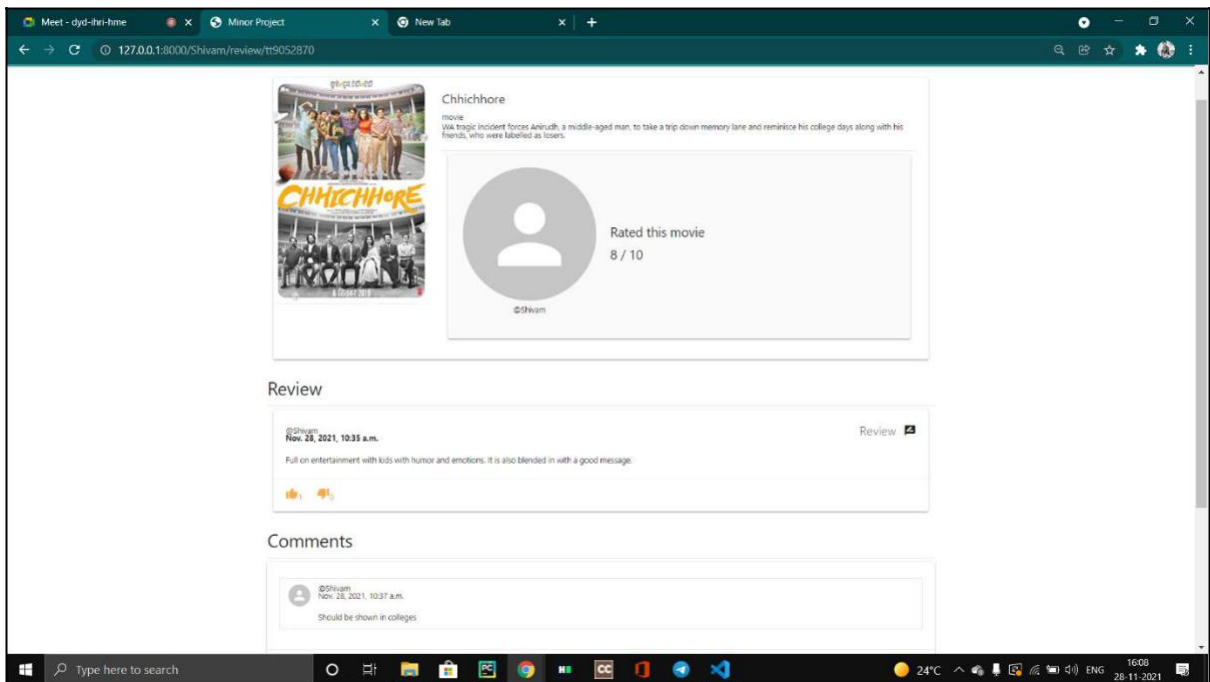


MOVIE RATING

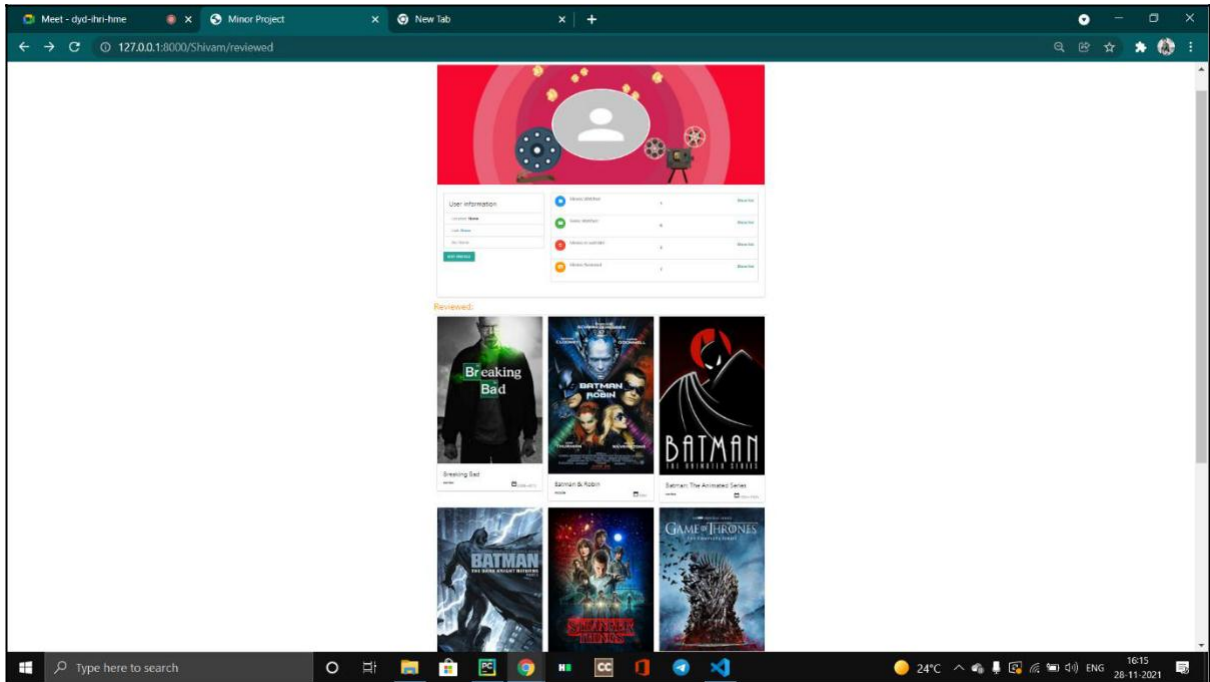


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LIKE, REVIEW, COMMENT

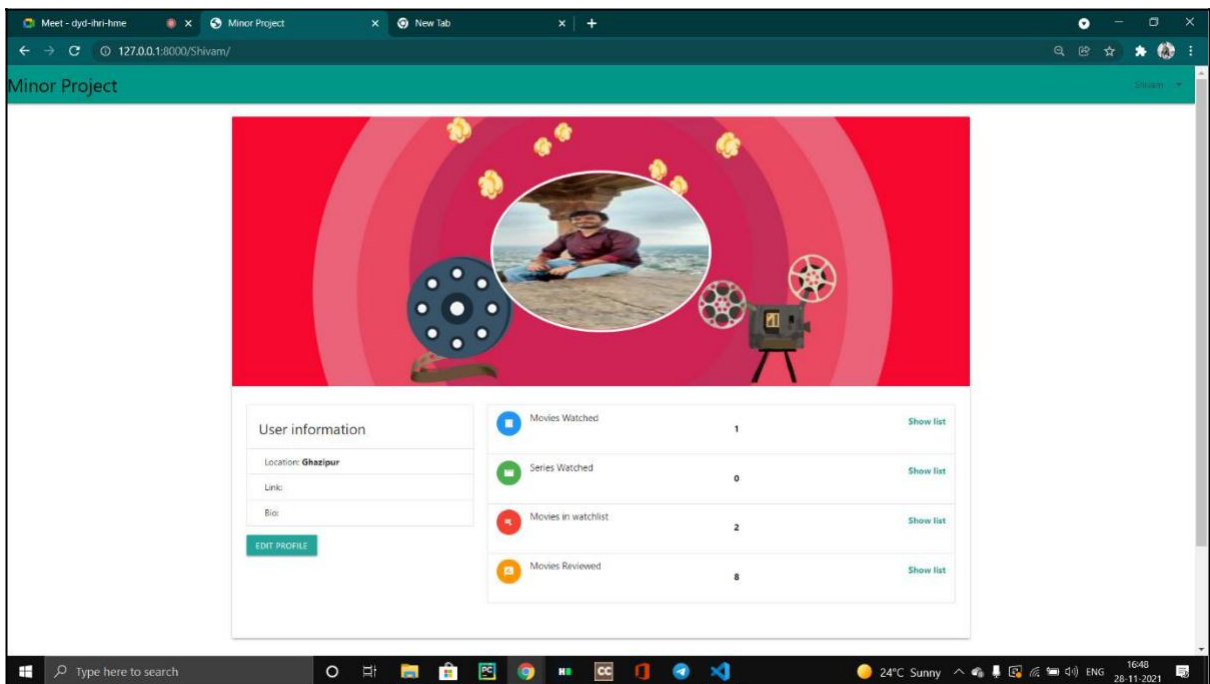


USER ACTIONS AND DATA

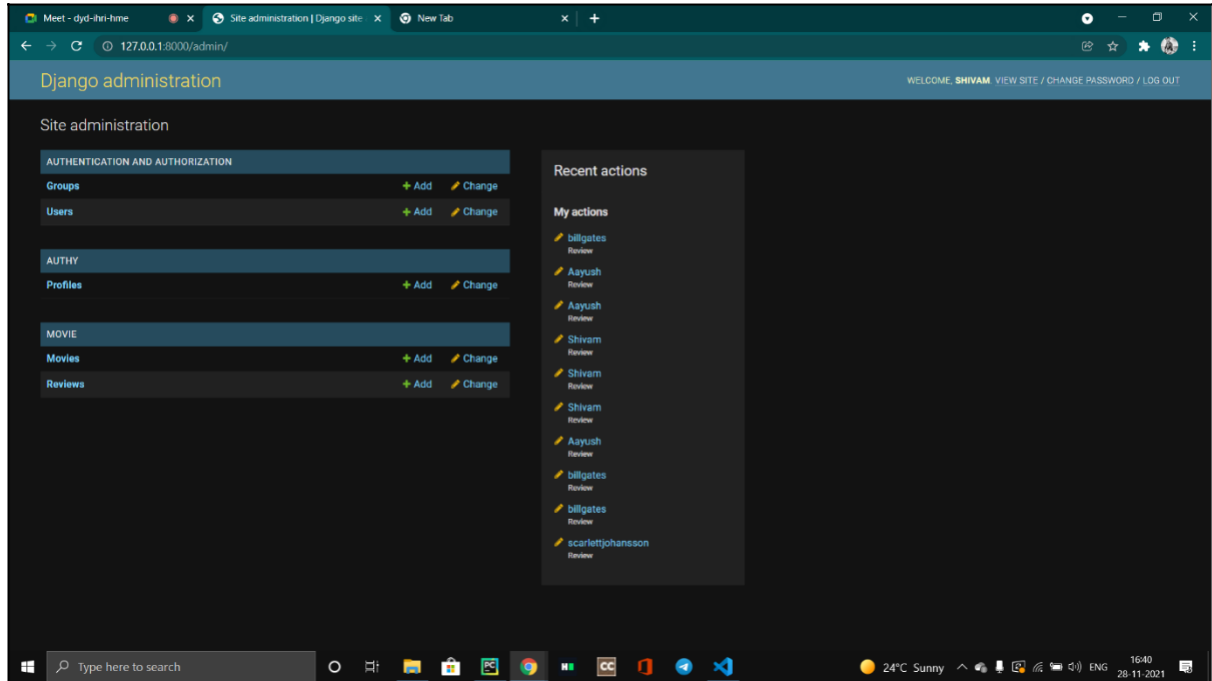


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USER DETAILS

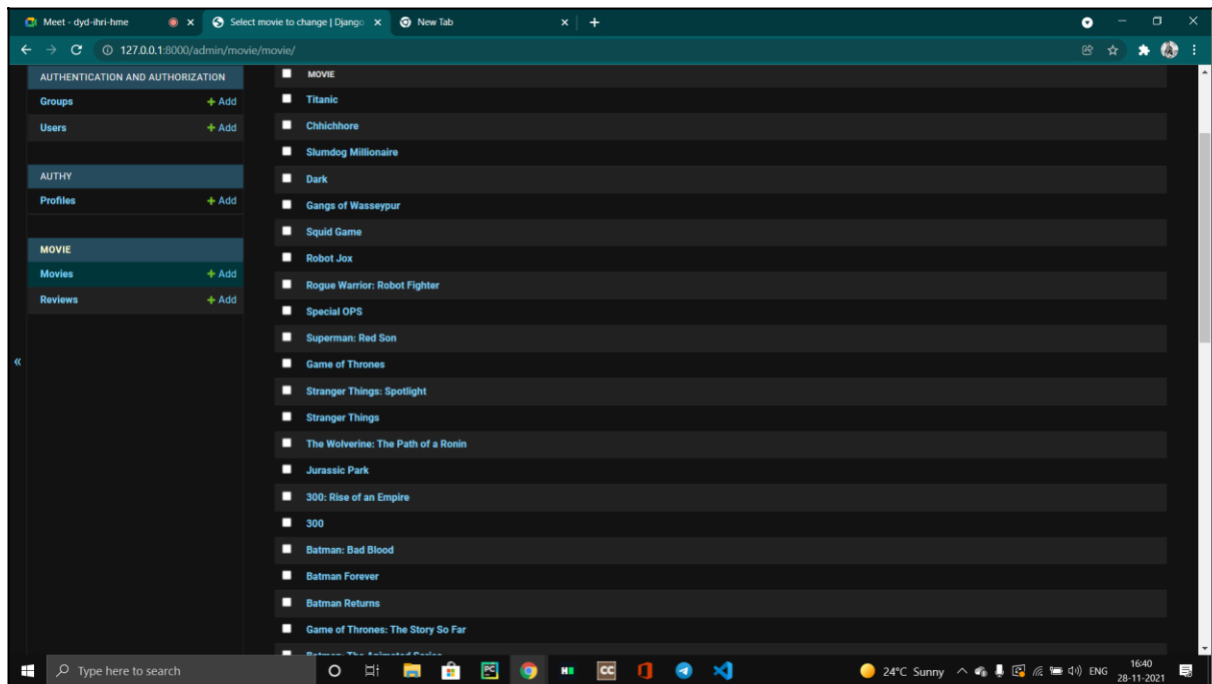


DJANGO ADMIN PANEL

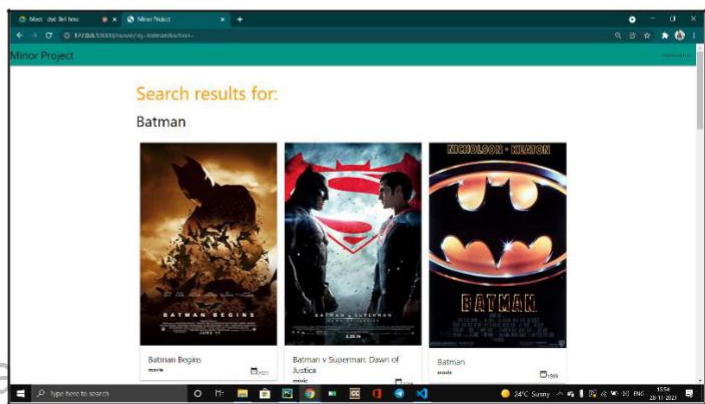


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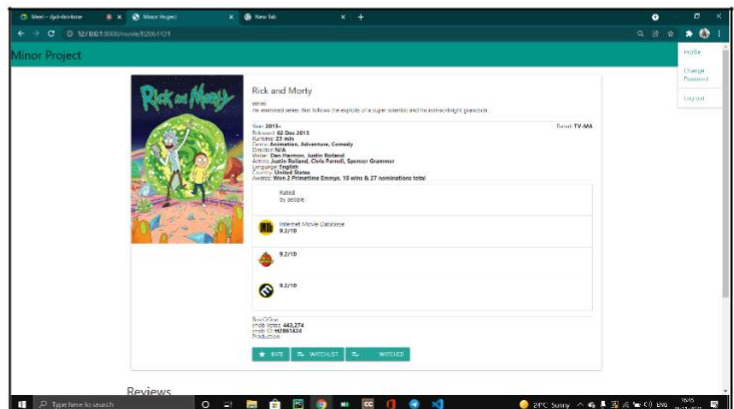
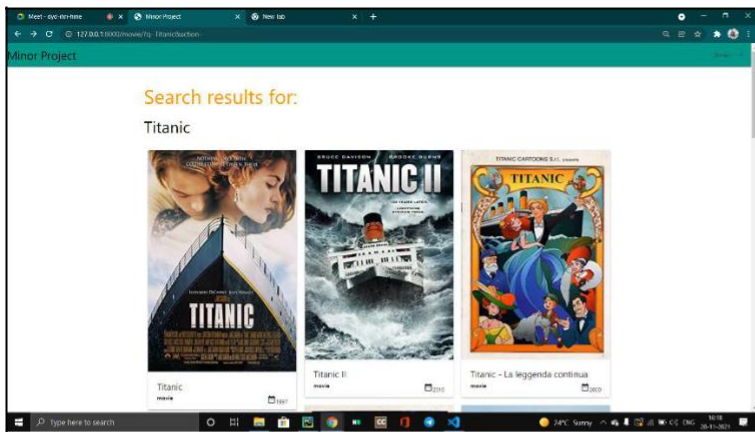
USER DATABASE



SOME MORE EXAMPLES



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Conclusion

While making this project, ease of accessibility and user-friendliness were kept in mind so that the project can be implemented on the ground. We made sure that everybody is able to glide through the interface smoothly.

Through thorough research it was found that, Reviews and ratings of products and services on 45% of website that are registered on web are either paid review or fake.

Thus, an interface like this can prove to be trustworthy website to provide users to search and review all kind of products and services from all sectors of business, startups to provide unbiased actual review from certified customers.

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Future Work

Starting with this project i.e., “Movies and Shows” Review Website which will assist end user in managing watchlist, Reviews, likes, suggestions.

Soon we will register our website with domain name and host it on shared server over world wide web. We would improve overall website for Design, look, Feel, Rendering and navigation of GUI.

Improve Database and search result by using advanced algorithm and data structures to reduce space and time costs.

Use Machine Learning Algorithm to apply AI to our user database to provide required result with better ease.

We aim improve this project to create a trustworthy website to provide users to search and review all kind of products and services from all sectors of business, startups to provide unbiased actual review from certified customers.



References

We would like to appreciate free to use open-source software's and services listed below for providing Products and Services required in successful development of this project.

| | |
|-----------------------|-----------------------------------------------------------------------------|
| Front end template | https://materializecss.com/ |
| Guidance | https://www.geeksforgeeks.org/ |
| Backend | https://www.djangoproject.com/ |
| Movie Database | http://www.omdbapi.com/ |
| Libraries and Modules | https://www.python.org/ |

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