

Gujarat University

Department Of Animation, IT-IMS and Mobile
Application



PROJECT REPORT ON



CineFlicks

Developed By:

[Mann Shrimali]

[Enroll. No. - 202126940127]

[BACKEND DEVELOPER]

**[MSc.IT – Data Management and Visual Insight (Sem-4)
Department of Animation, IT-IMS and Mobile Application,
Academic Year 2022 -2023]**

[Hetvi Kuvardiya]

[Enroll. No. - 202126940029]

[DATABASE ADMINISTRATOR]

**[MSc.IT – Data Management and Visual Insight (Sem-4)
Department of Animation, IT-IMS and Mobile Application,
Academic Year 2022 -2023]**

[Divija Panchal]

[Enroll. No. - 202126940064]

[FRONTEND DEVELOPER]

**[MSc.IT – Data Management and Visual Insight (Sem-4)
Department of Animation, IT-IMS and Mobile Application,
Academic Year 2022 -2023]**

DATE:

[13/04/2023]

[Internal Guide]

[Rohit Shelar]



Department of Animation, IT-IMS & Mobile Application,
School of Science, Gujarat University,
Navrangpura, Ahmedabad – 380009,

CERTIFICATE

This is to certify that **Mann Shrimali** Student of **M.Sc. IT in Data Management And Visual Insight (5 Years Integrated)**, Semester – IV, **Enrollment No: 20216940127** has Satisfactorily Completed his Semester End Project on **CineFlicks** By Using the Technology **MERN Stack Development**.

Project Internal Guide:
Rohit Shelar



Department of Animation, IT-IMS & Mobile Application,
School of Science, Gujarat University,
Navrangpura, Ahmedabad – 380009,

CERTIFICATE

This is to certify that **Hetvi Kuvardiya** Student of **M.Sc. IT in Data Management And Visual Insight (5 Years Integrated)**, Semester – IV, **Enrollment No: 202126940029** has Satisfactorily Completed her Semester End Project on **CineFlicks** By Using the Technology **MERN** **Stack Development**.

Project Internal Guide:
Rohit Shelar



Department of Animation, IT-IMS & Mobile Application,
School of Science, Gujarat University,
Navrangpura, Ahmedabad – 380009,

CERTIFICATE

This is to certify that **Divija Panchal** Student of **M.Sc. IT in Data Management And Visual Insight (5 Years Integrated)**, Semester – IV, **Enrollment No: 202126940064** has Satisfactorily Completed her Semester End Project on **CineFlicks** By Using the Technology **MERN Stack Development**.

Project Internal Guide:
Rohit Shelar

ACKNOWLEDGEMENT

As a part of the Our Curriculum and in order to gain practical knowledge in the field of Data Management and Visual Insight, this project report attempts to bring under one cover the entire hard work and dedication put by us in the completion of the project work on 'CineFlicks' for : Gujarat University.

The Basic Objective behind doing this project report is to get knowledge about different tools and skills for project development. In this project report We have included various concepts, effects and implications. Doing this Project report helped us to enhance our knowledge. We went through many valuable experiences related to our topic concepts. Through this report we came to know about the importance of Self-study and the role of devotion towards the work.

We Thank all our Faculties of Department of Animation , IT-IMS and Mobile Application for helping us get through with this project. Constructive Criticism is Cordially Accepted.

Thank You,

Yours Sincerely,

Mann Shrimali

And Team.

Table of Content

NUMBER	DESCRIPTION	PAGE NO
1	Introduction	8
	1.1 Project Summary	8
	1.2 Purpose	8
	1.3 Project Scope	8
	1.4 Intended Audience	8
2	System Planning & Requirement	9
	2.1 Hardware Specifications	9
	2.2 Software Specifications	9
3	Feasibility Study	10
	3.1 Time Feasibility	10
	3.1 Technical Feasibility	10
4	System Design	11
	4.1 DFD	11
	4.2 Database Design (Data Dictionary)	11
	4.3 Screen Layout	12 – 17
5	Testing	18
	5.1 Test Cases	18
6	Conclusion	19
7	Future Prospective Features	19
8	References and Bibliography	20

1. INTRODUCTION

1.1 Project Summary

CineFlicks is the movie and series suggestion website based on User's Interest and Ratings of the Content. It Combines the different Genres chose by the user and provides the Best Outcome, to give an elite Cinematic Experience to the User.

1.2 Purpose

The fundamental functions of a professional movie suggestion website can be expressed in four words: to inform, analyze, convince, and entertain. Your top-priority task is to inform your readers about the content and the quality of the film. Without basic knowledge, it is impossible to decide whether you'd like to watch the movie or not. If you write only about technical elements without a word about the genre of the film or its cast, your review will not be informative enough.

1.3 Project Scope

The Entertainment Industry have got everything one might ever need: animated TV series & movies and even music. As of 2022, the total revenue in industry's projected at \$8.37 billion, the in-app total revenue of \$2,591 million.

1.4 Intended Use and Audience

Our Target Audience are the Cinephiles of the World with a distinguished taste in Hollywood Movies ... regardless of their Age or Taste in Cinema.

2. System Requirements and Specifications

System Requirements and Specifications for the Capstone Project 'CineFlicks' are as Follows:

2.1 Hardware Specification

<i>Hardware</i>	<i>Name</i>
Operating System	Windows 11 Home
Processor	Intel Core i5
RAM	8 GB
Solid State Drive	512 GB
Generation	11 th GEN

2.2 Software Specification

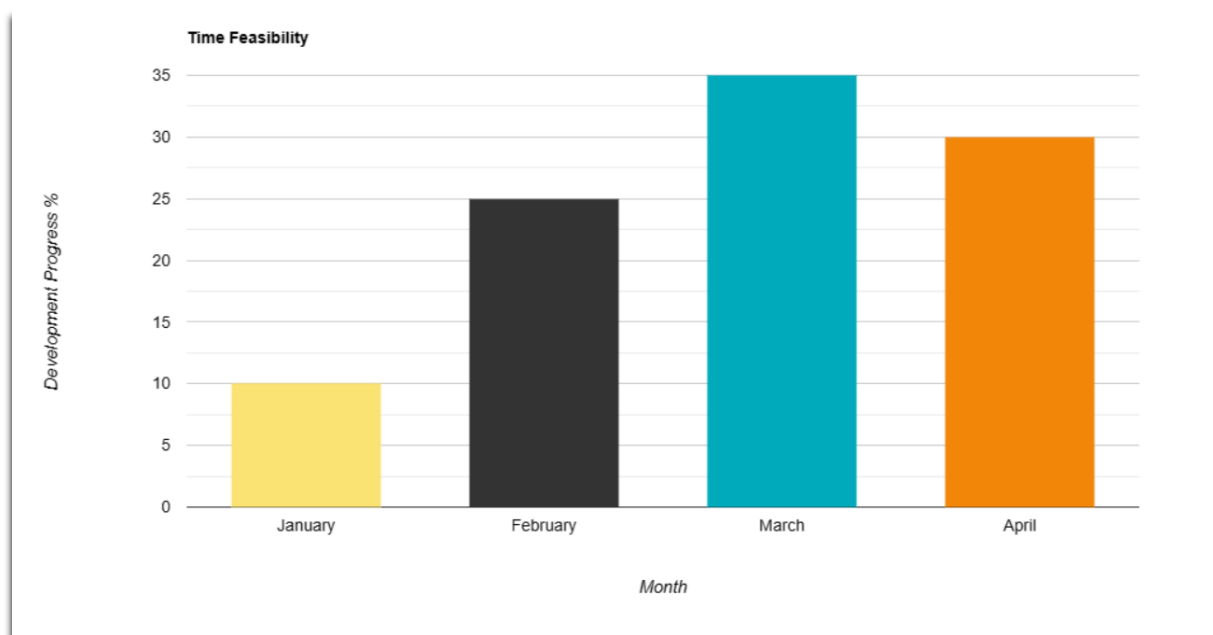
<i>Software</i>	<i>Name</i>
Code Editor	Visual Studio Code
Browser	Mozilla Firefox - 111.0.1 (64-bit)
Project Type	MERN Stack Development
Frontend	REACT JS
Server	NodeJS – Express
Database	MongoDB
Additional Language	Python

3. Feasibility Study

3.1 Time Feasibility

Time Period of One Semester [approx. 6 months] was Scheduled for overall completion of Capstone Project. Different Amount of work were to be displayed at various Time Frames of Examination :

- 40% Work – Internal Examination
- 60% Work – External Examination



3.2 Technical Feasibility

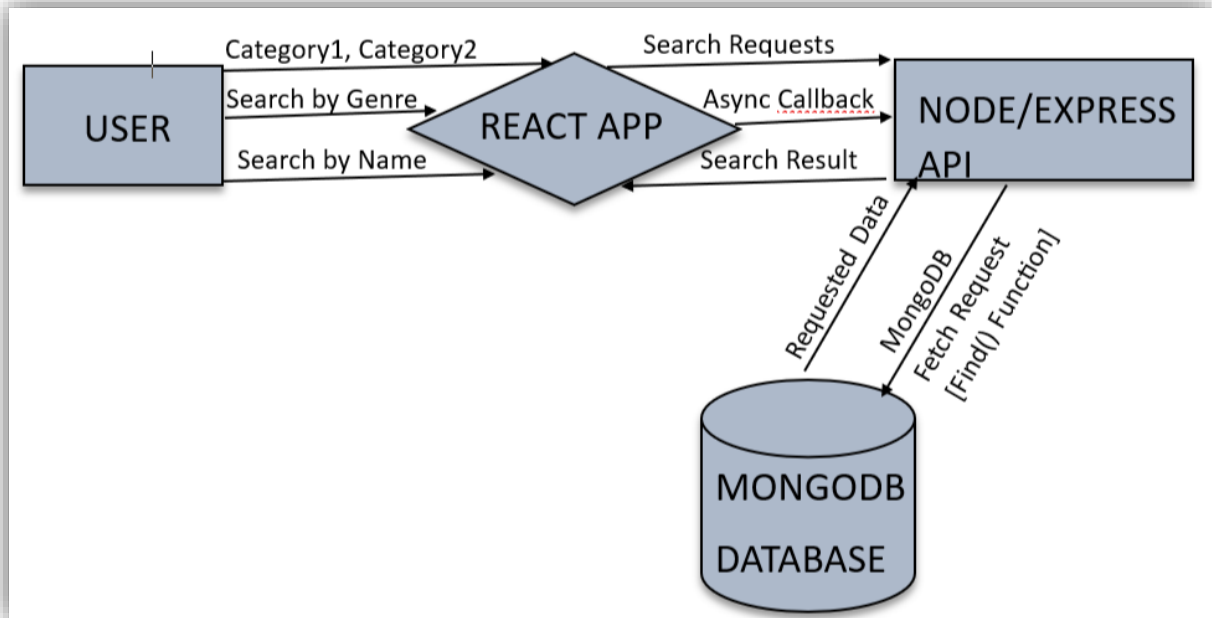
Technical aspects of this projects were to learn about the required Technologies . With the Support of our Faculties , we had a functioning understanding of REACT , NODE JS , MongoDB and EXPRESS JS which served as a Paradigm for our Project . However , it was Challenging to learn about additional modules and dependencies required for our Project such as Axios , Cors , Router-dom, etc .Web-scraping using Python had to be learned in order to prepare the Database.

The Hardware Requirements were fulfilled completely with the available resources.

4. System Design

4.1 Data Flow Diagram :

Level – 1:



4.2 Database Design

- DATABASE SERVER – MongoDB
- DATABASE NAME – movieDB
- COLLECTION NAME – Movies
- Number of Documents – 300

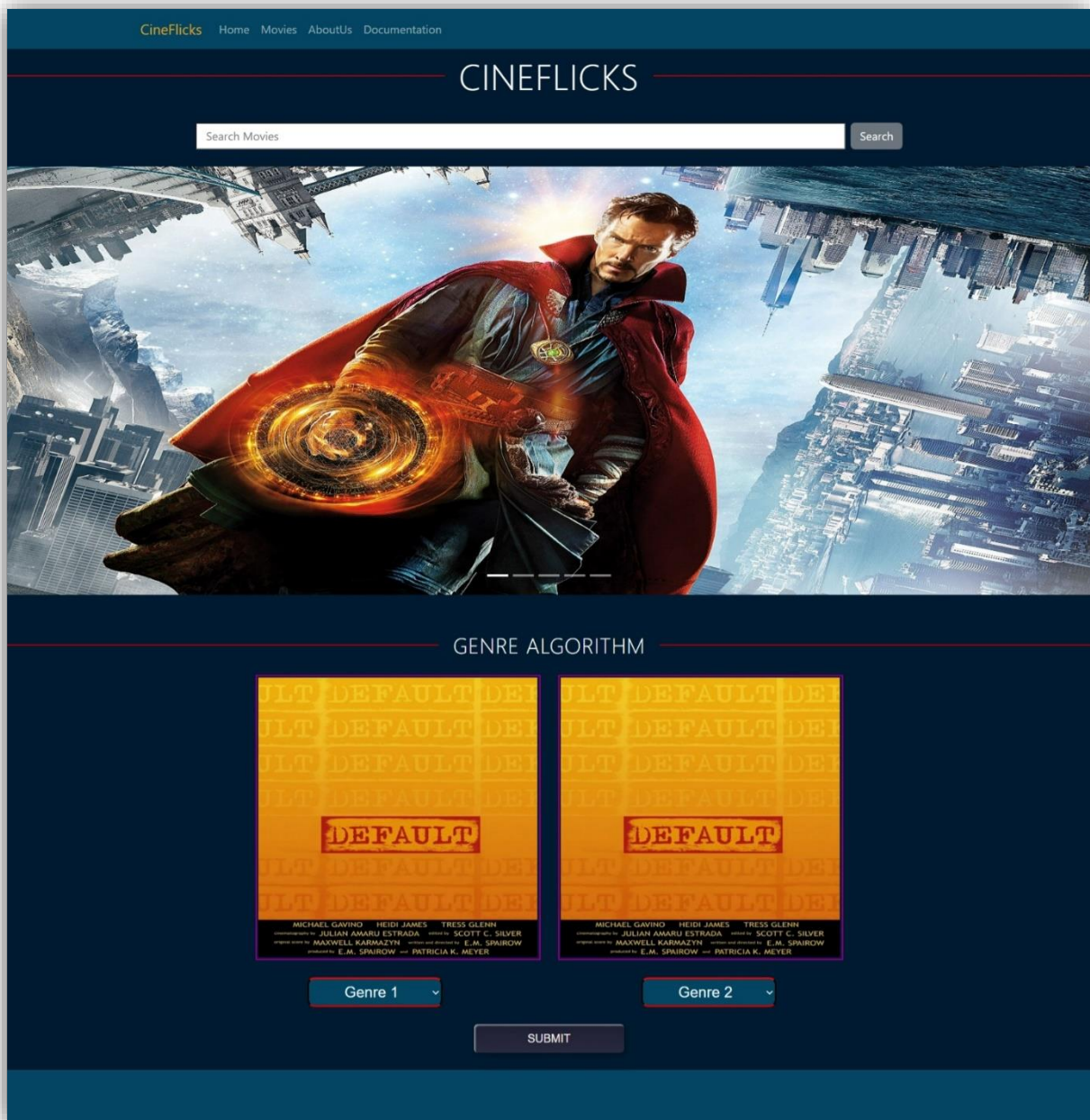
COLLECTION SCHEMA:

Name	Type	Length	Constraints	Primary Key/ Index
Id	Int	3	NOT NULL	YES
Movie Name	Varchar	90	-	NO
Genre	Array	10	-	NO
IMLink	Varchar	400	-	NO
Year	Int	5	-	NO
Rating	Double	5	-	NO
Movie_link	Varchar	499	-	NO
Description	Char	499	-	NO

4.3 Screen Layout

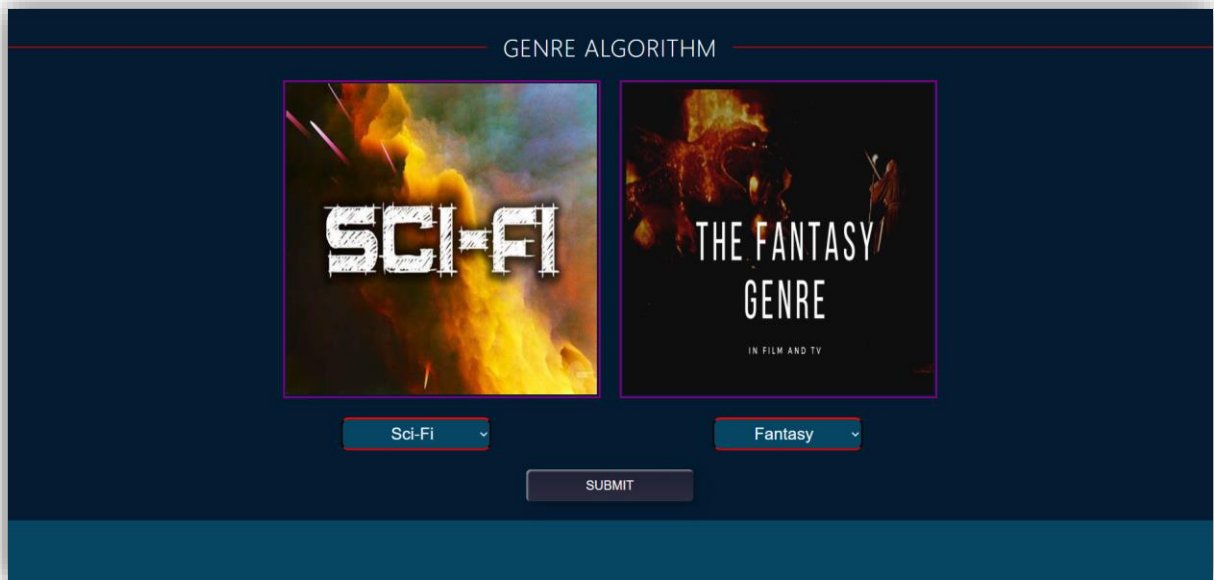
Frame 1 : HOME PAGE

URL : Localhost:3000/home



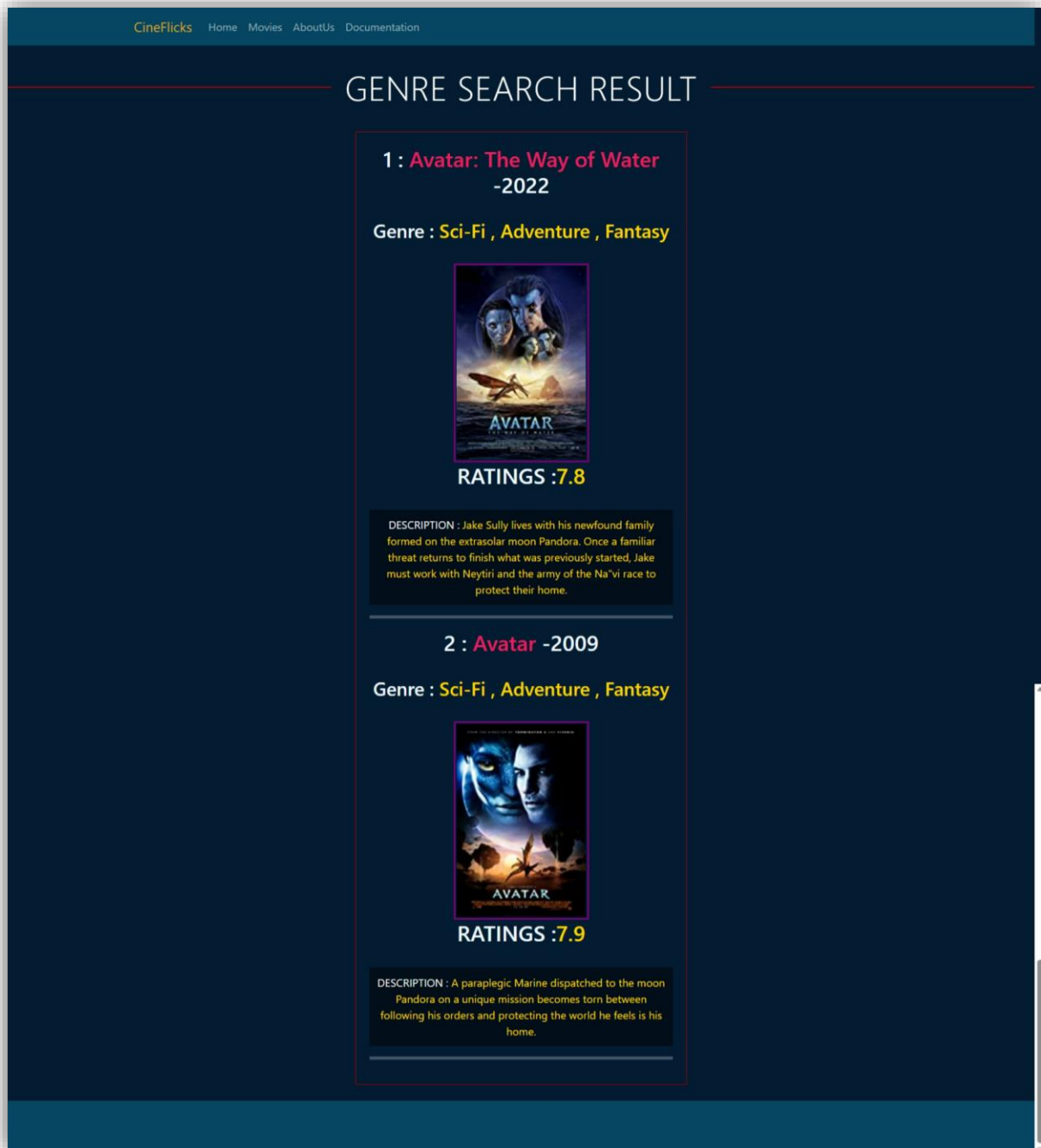
Frame 2 : Genre Algorithm

URL : Localhost:3000/home



Frame 3 : Genre Algorithm Result

URL : Localhost:3000/searchresult



All the Movies having Genre 'FANTASY' and 'SCI-FI'.

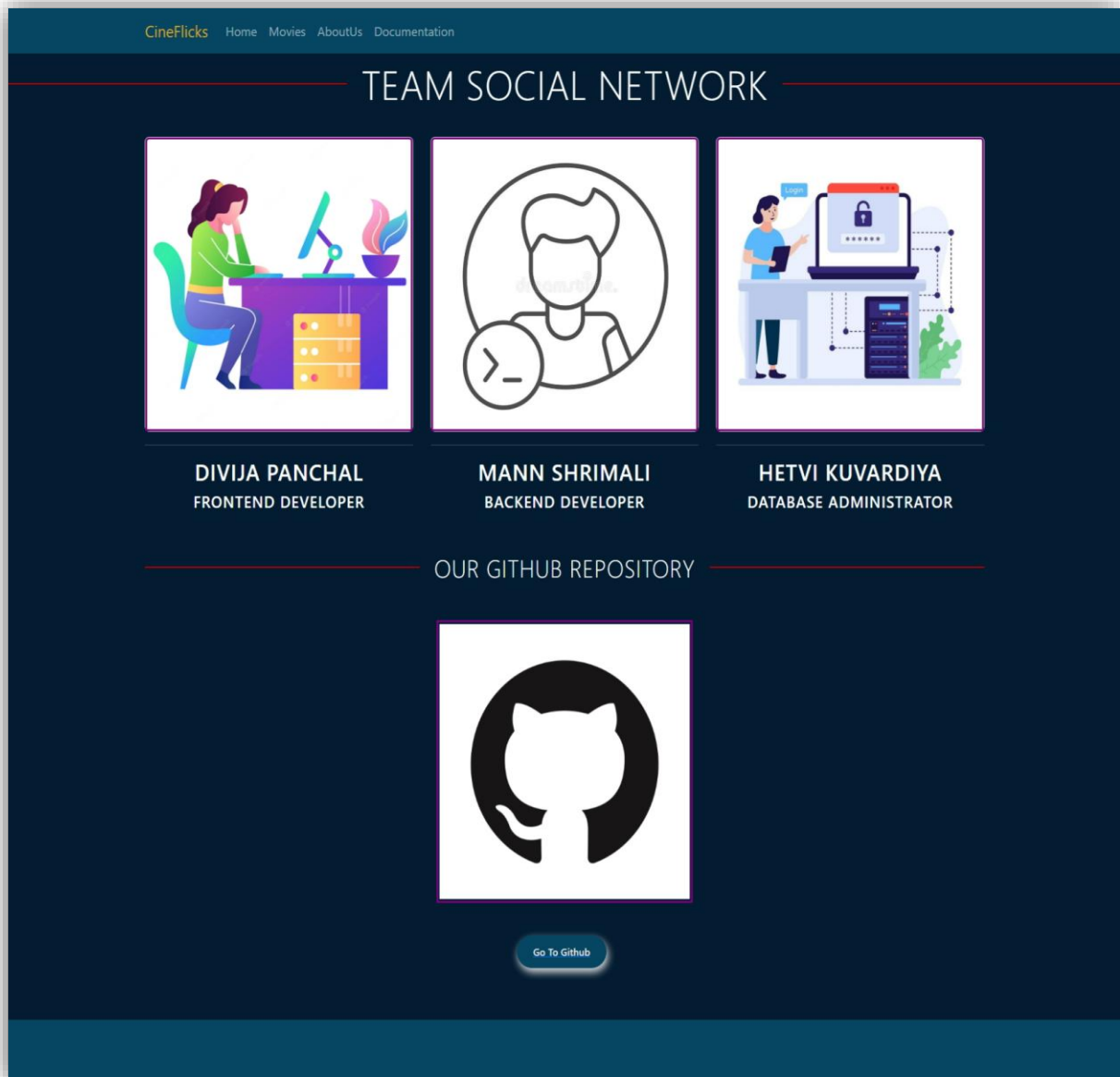
Frame 4 : Movies Page [SINGLE GENRE]

URL Localhost:3000/movie



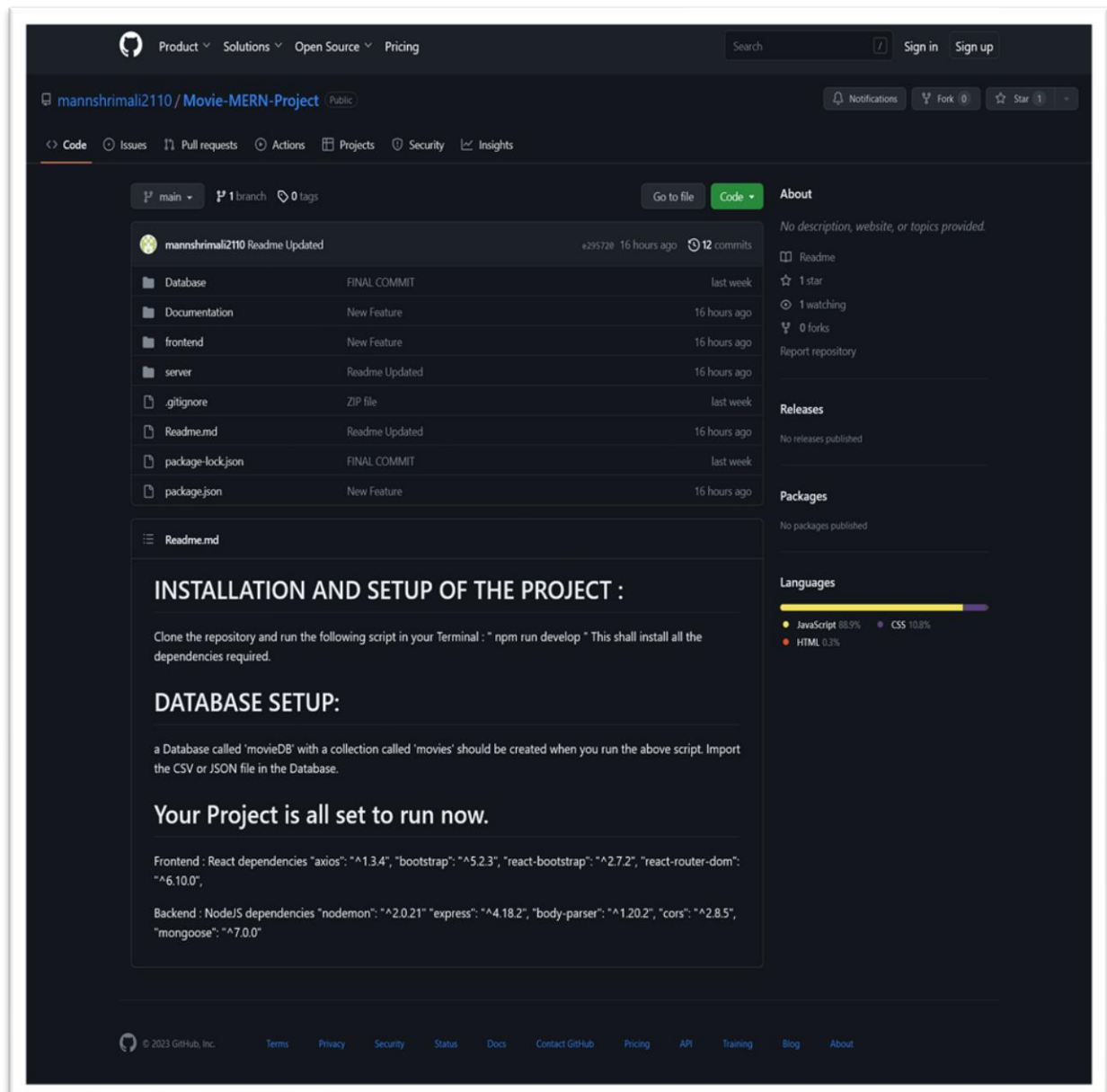
Frame 5 : About Us Page

URL : Localhost:3000/AboutUs



Frame 6 : Our GitHub Repository

URL : <https://github.com/mannshrimali2110/Movie-MERN-Project>



5. Testing

5.1 Test Cases

No	Title	Expected Result	Actual Result	Solution	Status
1	Responsive page	Optimized for desktop view	Some content being cut off	Change layout, font-size, etc.	Success
2	Image not found	display perfectly	Images not displaying	Import correct path	Success
3	Grid layout	Display appropriate content	Content cut off	Appropriate spacing & padding between grid items	Success
4	Carousel	Navigation button should work properly	Not navigated properly	Use react-bootstrap-carousel	Success
5	Button	Successfully submit genre	Not submitting properly	Consistent location	Success
6	API	Data received in proper JSON format	Fetch Function not receiving Data from Server	Axios Library	Success
7	Redirecting	Default ' / ' Page redirected to ' /home '	Redirection not happening	Navigate Function inside the Element Tag in Routes	Success
8	Genres	Genres mapped out as singular Array	Genres were identified as Object and mapped out collectively	Converting them into an Array first	Success
9	JSON	Data collected in the form of JSON format	CSV data identified Genre as String instead of Array	Python Code for conversion of CSV into JSON array	Success
10	Download	Documentation to be downloaded on click	File not found in the given relative Path	Shifting the File in Public Folder.	Success

6. Conclusion

During this group project we learned how significant it is for team to communicate our different approaches and how we can all compromise for a smooth transition into conclusion of the project. Many New Technologies were to be learned. It helped us improve our programming knowledge and apply the knowledge we received from our Institution. We are sure it will help us build our Resume and benefit us in Future as a part of the IT Industry.

Throughout this process, we essentially learned how to adjust, communicate and respect out different styles of working and individuality.

Thus, Capstone Project 2023 was a Success!

7. Future Prospective Features:

1. Triple Genre Search

- This Feature will let User Search for three genres at a time, right now we are having search by two genres of your choice.

2. User Registration

- This Feature will let a User store his Data like favourite and most watched movies, can predict the movies based on his interest and use it as an account.

3. Team Watch

- This feature let User to watch one specific movie with their loved ones on the same screen.

4. Base Expansion

- The Website can be extended for a Base for Series and Anime as well.

5. Streaming Platform

- The Feature may provide information about the platform where the User can watch a particular movie.

8. References and Bibliography :

- [React-Bootstrap · React-Bootstrap Documentation](#)
- [MongoDB Documentation](#)
- <https://stackoverflow.com>
- Programmopedia