
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**EASTERN UNIVERSITY**

Project on

# FLEX

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**Course Title:** Web Programming Laboratory

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# Table of Content

# Chapter 1
# Introduction

## 1.1 Introduction

In the ever-evolving landscape of entertainment, the demand for convenient and diverse streaming services has reached unprecedented heights. Recognizing this trend, our team has developed FLEX, a cutting-edge movie streaming website that aims to revolutionize the way users experience and enjoy their favourite films. FLEX is not just another streaming platform; it's a meticulously crafted digital cinema hub designed to provide an immersive and user-friendly cinematic experience with no cost.

## 1.2 Objectives

The primary objective of FLEX is to offer a seamless and enjoyable movie-watching experience to users worldwide. We aim to create a platform that caters to the diverse tastes and preferences of audiences by providing a vast library of movies spanning various genres.

## 1.3 Expected Outcome

**User Satisfaction:** FLEX aims to set a new standard for user satisfaction by providing a responsive and intuitive platform that caters to the diverse needs of our global audience. We anticipate high levels of engagement and positive feedback from users who appreciate the convenience and quality of the streaming experience.

**Content Diversity:** By curating a vast and varied library of movies, including different kind of genres, FLEX aims to become a go-to platform for users seeking diverse and culturally rich content. The expected outcome is a platform that appeals to a broad spectrum of audiences, fostering inclusivity and cultural appreciation.

**Innovation in Streaming:** Through continuous updates and technological advancements, FLEX aspires to be at the forefront of streaming innovation. We expect the integration of cutting-edge features to keep the platform dynamic and exciting, setting it apart from traditional streaming services.

# Chapter 2
# Methodology and Tools

## 2.1 Methodology

**Requirement Analysis:** Conducted a comprehensive analysis of the project requirements, focusing on user needs, content delivery, and interactive features. Identified key functionalities such as user authentication, content categorization, search capabilities, and social interaction elements.

**System Design:** Developed a system architecture outlining the structure and components of the movie streaming website. Defined database schema for efficient data storage and retrieval using MySQL.

**Frontend Development:** Utilized HTML for structuring the website, ensuring semantic and accessible markup. Employed CSS to design a responsive and visually appealing layout, enhancing the user interface. Implemented client-side interactivity using JavaScript for dynamic content updates and user engagement.

**Backend Development:** Implemented server-side logic using PHP to handle user authentication, session management, and data processing. Established a connection to the MySQL database for seamless data retrieval and storage. Ensured secure data handling by implementing measures such as parameterized queries to prevent SQL injection.

**Integration:** Integrated the frontend and backend components to create a cohesive and functional website.

**Testing & Deployment:** Configured the Wamp server virtual host for local deployment, creating a stable environment for testing and development. Ensured compatibility and performance optimization for the chosen server environment.

**User Acceptance Testing:** Conducted performance testing to ensure the website can handle concurrent user interactions.

## 2.1 Tools

**Visual Studio Code:** Chosen as the primary integrated development environment (IDE) for its lightweight design, extensive plugin support, and compatibility with HTML, CSS, JavaScript, PHP, and other web technologies.

**Wamp Server:** Deployed Wamp Server for local development and testing, providing a convenient environment for PHP and MySQL integration.

**MySQL:** Utilized MySQL as the relational database management system (RDBMS) for efficient data storage, retrieval, and management.

**Web Technologies:** HTML, CSS, and JavaScript were employed for frontend development, ensuring a responsive and visually appealing user interface.

**PHP:** Used PHP for server-side scripting to handle dynamic content generation, user authentication, and interaction with the MySQL database.

# Chapter 3
# Design and Implementation

## 3.1 Block Diagram of the System

## 3.2 Implementation

**Initialization:** Set up the project structure in VS Code.
Create necessary directories for HTML, CSS, JavaScript, and PHP files.

**Database Setup:** Create the MySQL database and tables according to the defined schema.
Establish a connection to the database in PHP.

**User Authentication:** Create registration and login forms in HTML. Implement PHP scripts for user registration and login. Securely handle passwords using hashing techniques.
Use sessions for user authentication.

**Homepage:** Design the homepage layout in HTML and CSS. Fetch a list of movies from the database using PHP. Display movie thumbnails and basic information on the homepage.

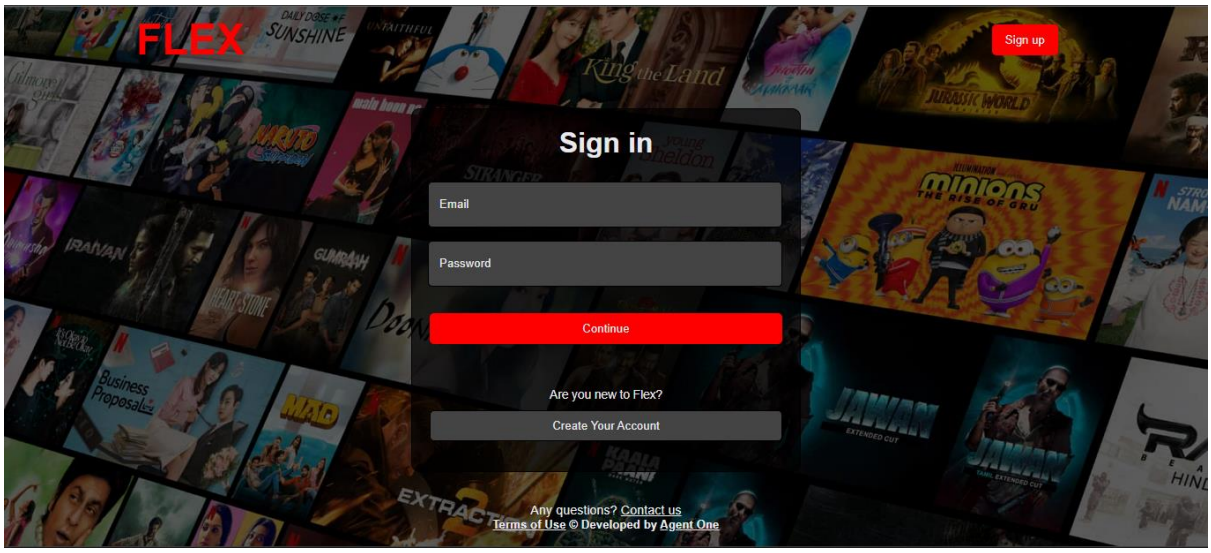
**Movie Play Page:** Create a movie playing page in HTML. Fetch detailed information about a selected movie from the database using PHP. Display movie details such as title and release date. User can do comment in movies on that page.

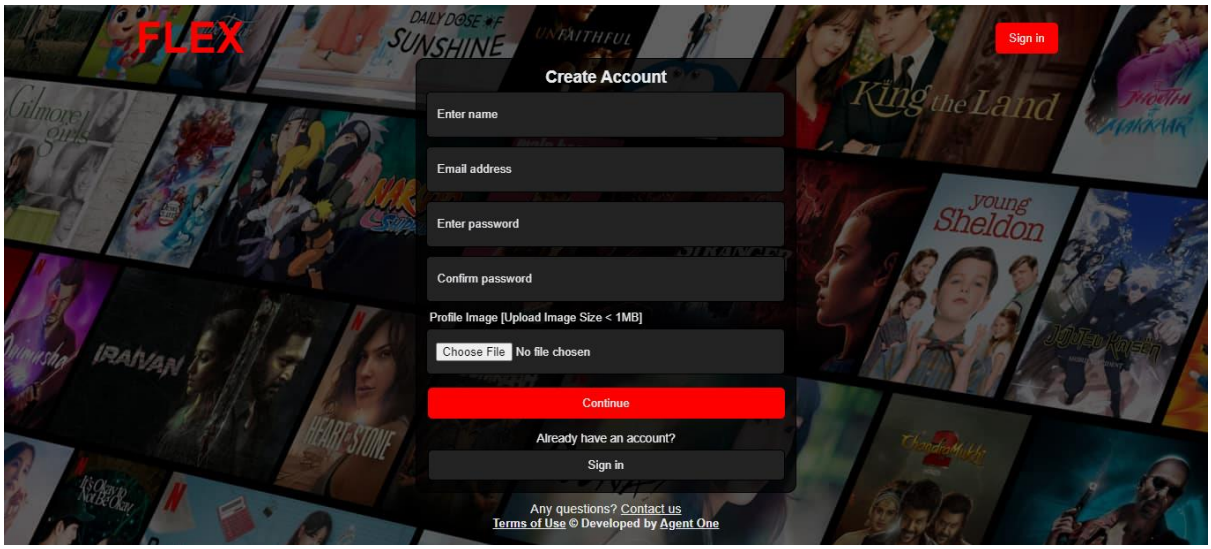
**Search Functionality:** Implement a search bar on the homepage using HTML and CSS.
Use JavaScript to capture user input and send asynchronous requests to the server.
Implement a PHP script to process search queries and return relevant results.
**Continuous Improvement:** Collect user feedback and make necessary adjustments.
Consider implementing additional features or enhancements based on user needs.

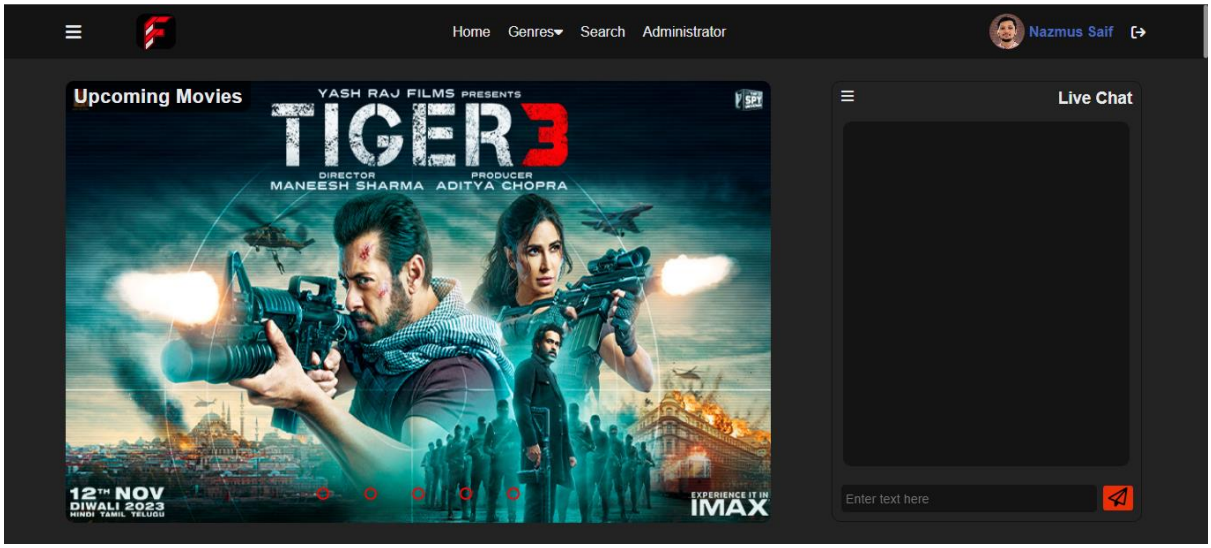
# Chapter 4
# Result and Conclusion

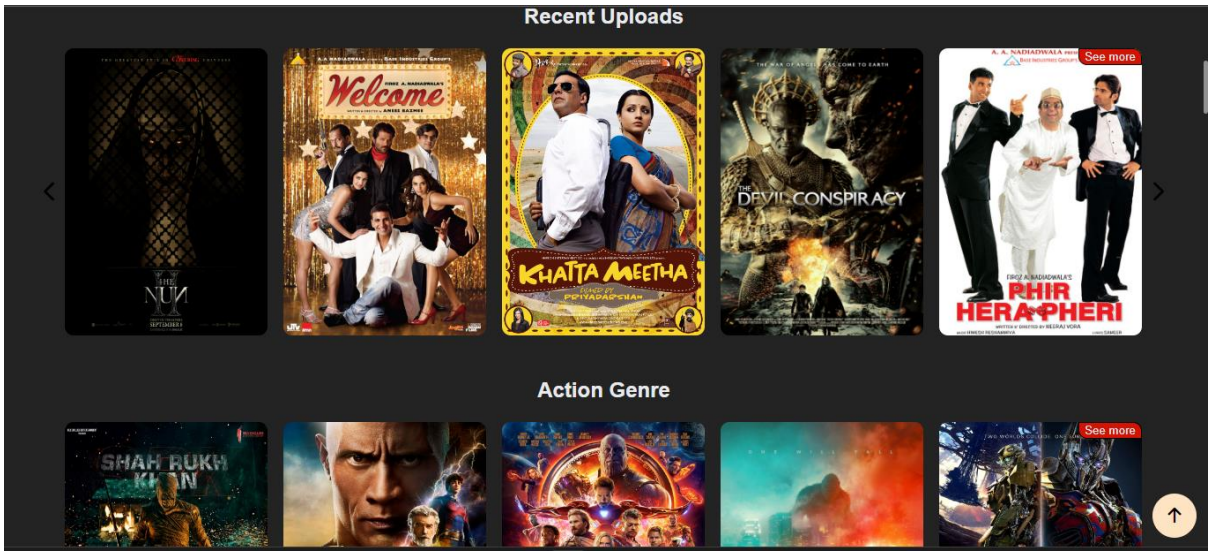
## 4.1 Result

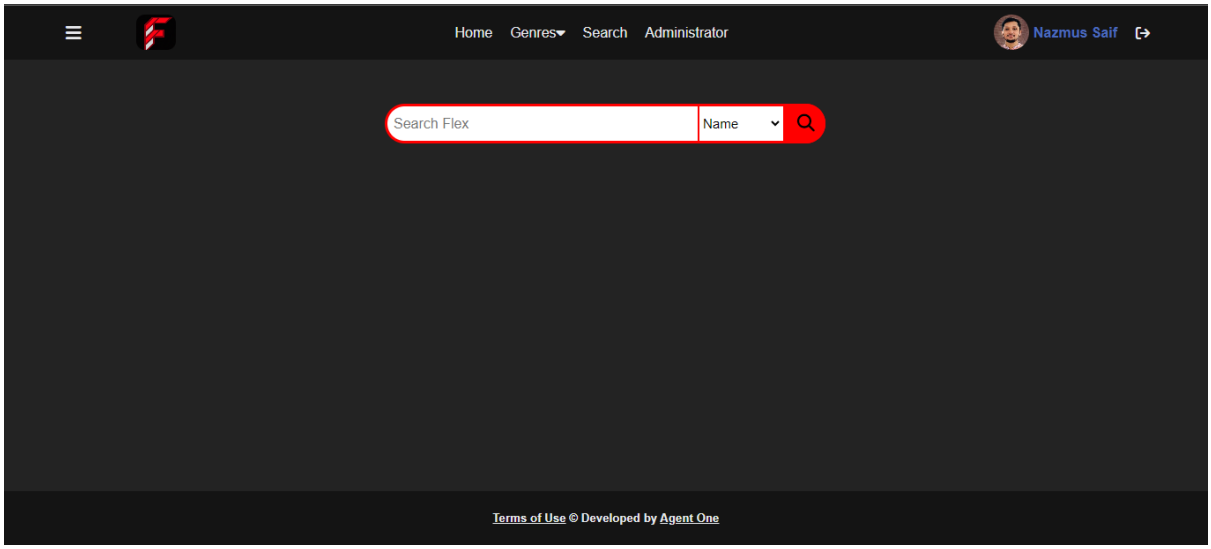
The website successfully performs the desired operations. It accurately performs its operation with each action. Sample result is shown below in screenshot format:

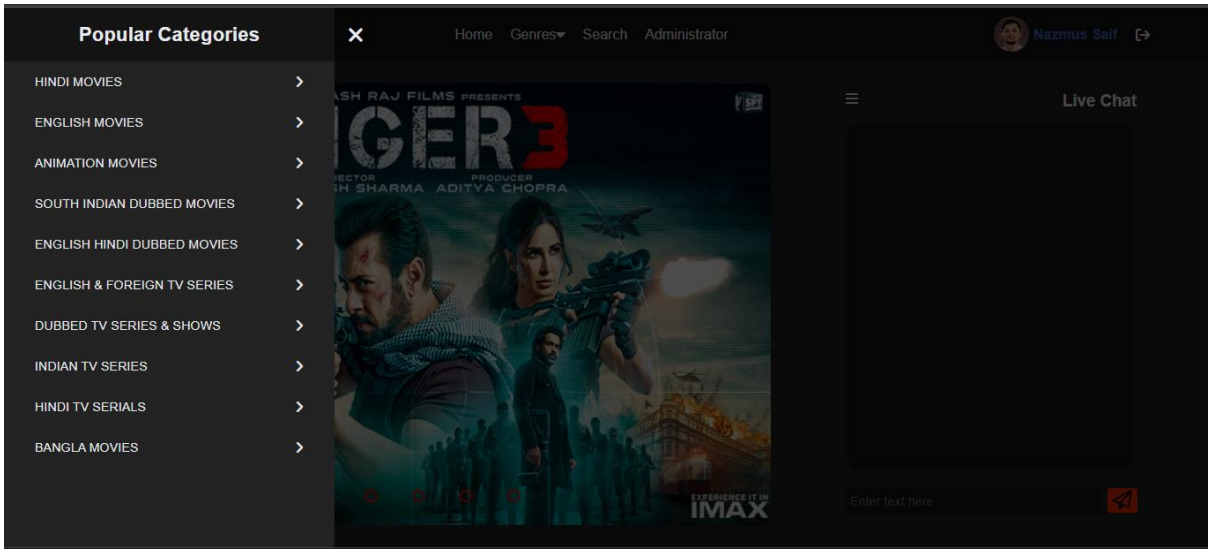

FLEX
Sign up
Sign in
Email
Password
Continue
Are you new to Flex?
Create Your Account
Any questions? Contact us
Terms of Use © Developed by Agent One


FLEX
Sign in
Create Account
Enter name
Email address
Enter password
Confirm password
Profile Image [Upload Image Size < 1MB]
Choose File
No file chosen
Continue
Already have an account?
Sign in
Any questions? Contact us
Terms of Use © Developed by Agent One


Home
Genres
Search
Administrator
Nazmus Saif
Upcoming Movies
YASH RAJ FILMS PRESENTS
TIGER 3
DIRECTOR
MANEESH SHARMA
PRODUCER
ADITYA CHOPRA
12TH NOV
DIWALI 2023
HINDI TAMIL TELUGU
EXPERIENCE IT IN
IMAX
Live Chat
Enter text here




## 4.2 Conclusion

In the culmination of the FLEX movie streaming website project, we take pride in delivering a dynamic and user-centric platform that aspires to redefine the digital cinema experience.

FLEX, crafted with precision and care, brings together a seamless blend of intuitive design, diverse content, and interactive features to cater to the ever-evolving needs of movie enthusiasts.

The implementation of FLEX involved a meticulous process, from the inception of the idea to the deployment of a fully functional system. Through the harmonious integration of HTML, CSS, JavaScript, PHP, and MySQL, we have not only created a technologically sound platform but also one that places user satisfaction at its core.

Our commitment to user convenience is reflected in the website's straightforward user authentication, the visually engaging homepage, and the detailed movie pages that provide a rich cinematic experience. The inclusion of features like search functionality, user interactions, and community engagement adds layers of depth, transforming FLEX into more than just a streaming service but a communal space for movie lovers.

Throughout the development journey, rigorous testing and adherence to secure coding practices were paramount, ensuring a robust and secure environment for users to explore and enjoy the vast library of films. The responsive design further emphasizes our dedication to accessibility, allowing users to seamlessly navigate FLEX across various devices.

As we deploy FLEX for public access, we look forward to user feedback and continued improvement. The journey doesn't end here; rather, it marks the beginning of a continuous evolution, with future iterations incorporating new features, addressing user needs, and staying at the forefront of streaming innovation.

In conclusion, FLEX stands as a testament to our commitment to delivering a high-quality, free, and enjoyable movie streaming experience. We invite users to embark on this cinematic journey with us, where the love for movies is celebrated, and FLEX becomes a digital home for the global community of film enthusiasts.

## 5. References:

PHP Mailer – https://www.github.com/