

Project Report On

Movie Booking Application

Date: 13th Dec, 2023

Introduction

In a world where entertainment is at the heart of our leisure, a Movie Booking App emerges as the perfect companion for cinephiles and casual moviegoers alike. This innovative application brings the magic of cinema to the fingertips of users, offering a seamless and convenient way to explore, book, and enjoy the latest cinematic masterpieces.

Project Objective:

The objective of this project is to develop a user-friendly web based application that help users to book a movie ticket of the new released movie as per their convenience.

Methodology:

We will use the incremental model in this project as the core features of the project will be developed at first and other features will be added as a series of increments later.

System and Requirement Analysis:

Requirement analysis for a movie ticket booking application involves identifying the key features and functionalities that the application should possess in order to meet the needs of its users. Here are some essential requirements to consider:

i. User Registration and Profiles:

- User registration and login functionality for users.
- User profiles to showcase relevant information.

ii. Search and Filtering:

- Filtering options to refine search results according to users preferences.

iii. Booking and Scheduling:

- Booking system to allow users to book tickets.
- Users can also delete the bookings.

iv. Admin Panel:

- Admin dashboard to add movies.
- Also, Update and delete movies.

Tools and Technology

The tools and technologies, we will be using are as follows:

Tools	Used in
ReactJs and Material UI	Frontend
NodeJS	Backend
MongoDB	Connect database
LibreOffice	Drawings
Pages	Documentation

Table 1: Tools and Technologies

Incremental Model:

The incremental model is an effective approach for developing this application. It involves dividing the development process into smaller, manageable increments or iterations, each delivering a specific set of features and functionalities. Here's how the incremental model can be applied:

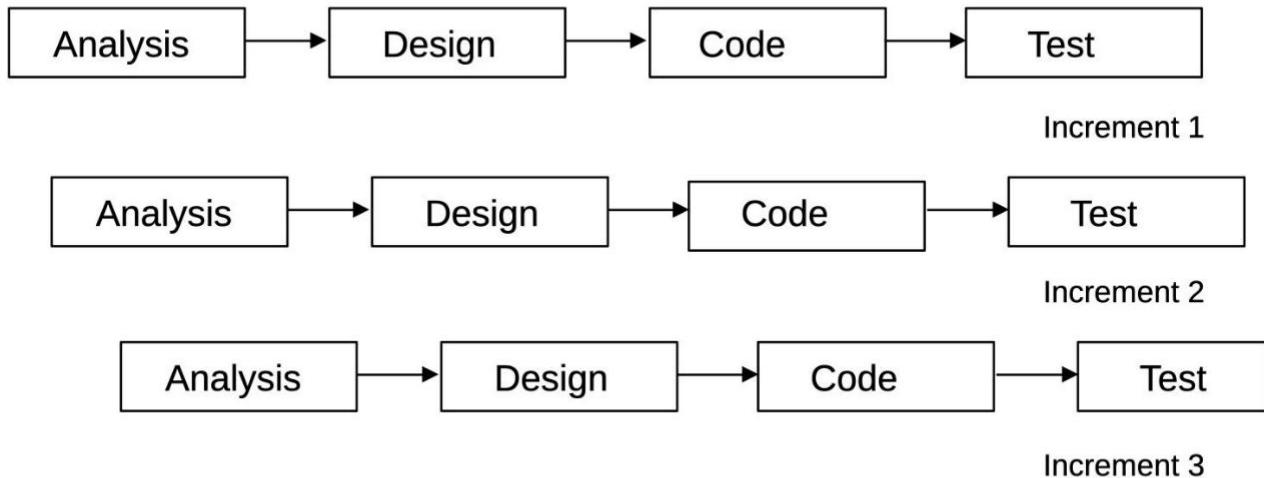


Figure 1: Incremental Model Methodology

Increment 1: Backend Connection

- Developed the database connection for User signup & login and Admin signup & login.
- Added the functionalities to add, delete, update, book and schedule movie ticket.
- This was tested in PostmanAPI.

Increment 2: Frontend

- Develop the core website structure, including the homepage, user registration/login, and admin login with Jwt token authentication.
- Search filter
- Movies section
- Add movies section for admin only.

Increment 3: Fetching

- Fetched and store the connection.
- Used axios for calling API's.

Each phase in the incremental model builds upon the previous phase, gradually enhancing the application functionality and user experience. This approach allows for iterative development, rapid feedback incorporation, and flexibility in adapting to evolving requirements. To ensure the effective execution of each phase, regular feedback and communication with the development team are essential.

Use Case Diagram:

A use case diagram for Movie ticket Booking application represents the interactions between users, admin and the system itself. Here's an example of a use case diagram:

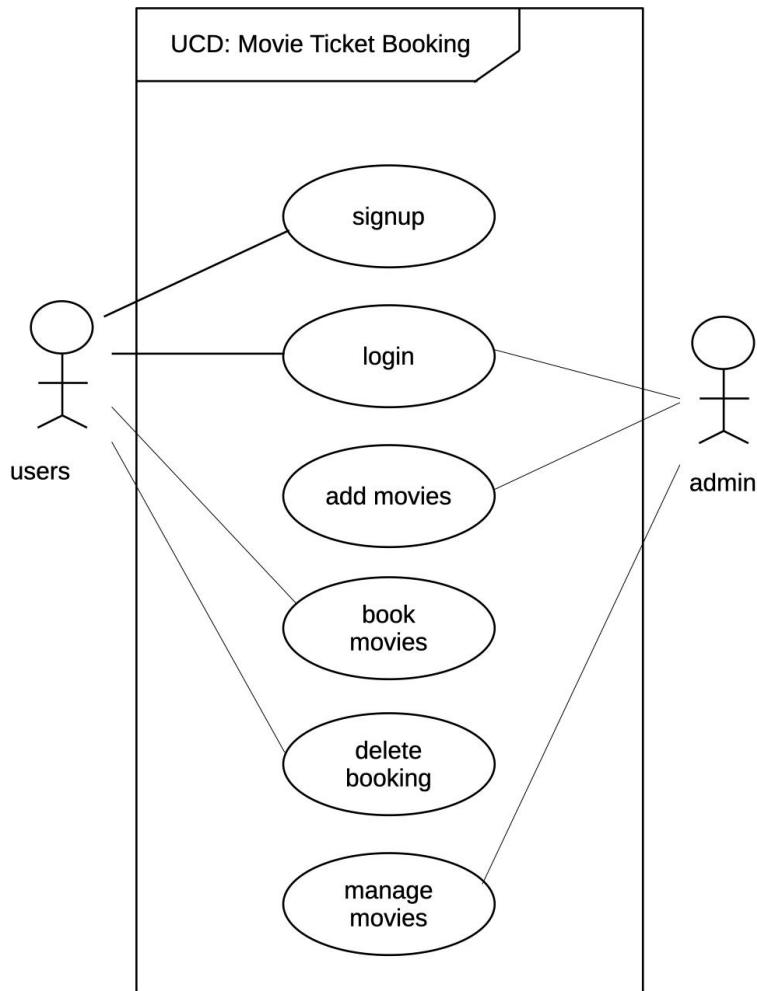


Figure 2: Use Case Diagram

In our system, we have two actors: admin, and users. In the above diagram, various interactions of actors with the system are illustrated. Users can login and search for movies, book movies and delete the movies if required, admins can add movies, and manage the whole system.

Deliverable/Output:

The project output of a “**Movie Ticket Booking**” application would be a fully functional and user-friendly application.. The key deliverables of the project include:

1. User Interface and Design.
2. User and Admin Profiles.
3. Search and Filtering Functionality.
4. Movies Section
5. User Registration and Login.
6. Admin Login (Admins can only signup from Postman API)
7. Responsive Design.

Conclusion:

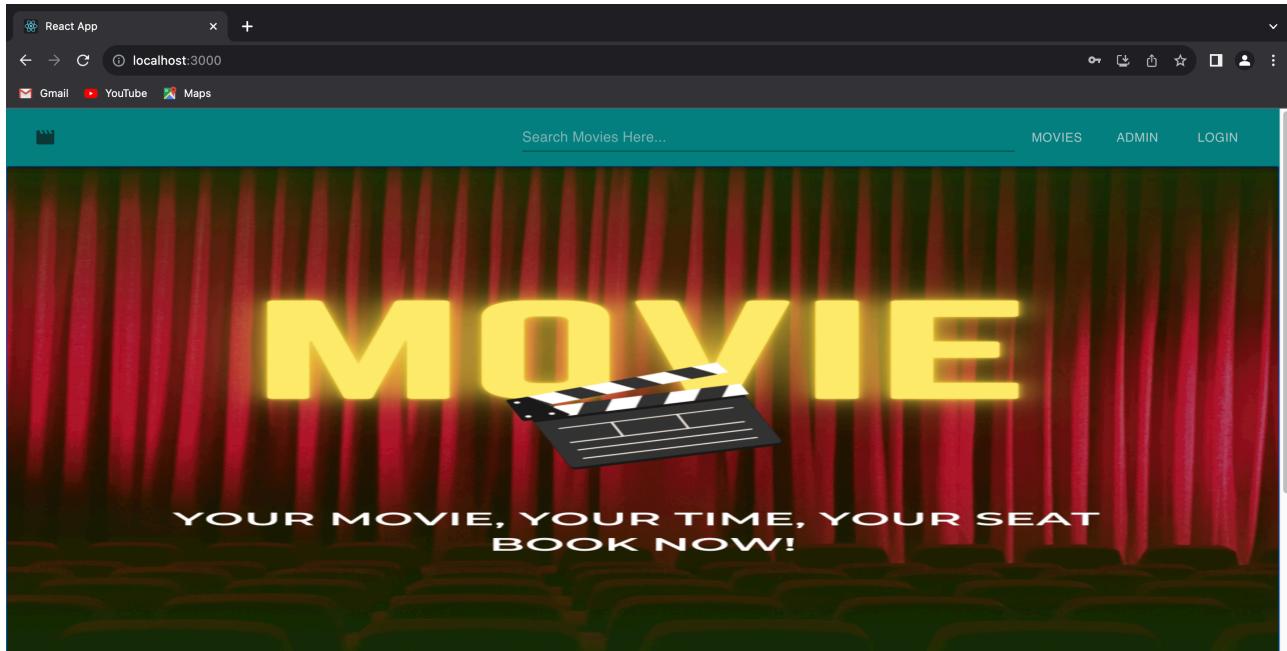
In conclusion, the development of this application has been a comprehensive and collaborative effort, aiming to enhance the digital presence and user experience. This documentation has provided a detailed account of the planning, design, development, and deployment phases of the project.

The primary objectives of this project were to create a user-friendly, informative, and visually appealing website that effectively serves the needs of various citizens. Through a careful analysis of requirements and an iterative development process, we achieved these goals by implementing a responsive design, intuitive navigation, and engaging content.

As we continue to refine and expand the website, incorporating feedback and staying updated with evolving technologies, we remain committed to leveraging this platform to enhance the college's engagement and accessibility.

Appendix:

1. Without any signup and Login of Users and Admins



Now Showing

A screenshot of the same movie booking website showing the "Now Showing" section. The header and top navigation are identical to the previous screenshot. The main content area displays three movie cards in a grid. Each card includes a movie poster, the movie title, its release date, and a "BOOK NOW" button.

- Animal**
12/1/2023
[BOOK NOW](#)
- Dimag Kharab**
11/3/2023
[BOOK NOW](#)
- Sam Bahadur**
1/12/2023
[BOOK NOW](#)

At the bottom center of the page is a button labeled "SHOW ALL MOVIES". In the bottom right corner, there is a small inset window showing a preview of the movie booking interface.

React App

localhost:3000/movies

Gmail YouTube Maps

Search Movies Here...

Movies Admin Login

All Movies



Animal

12/1/2023

BOOK NOW



Dimag Kharab

11/3/2023

BOOK NOW



Sam Bahadur

1/12/2023

BOOK NOW



React App

localhost:3000/movies

Gmail YouTube Maps

Search Movies Here...

Movies Admin Login



Basenji

1/12/2023

BOOK NOW



May December

1/12/2023

BOOK NOW



Godzilla Minus One

1/12/2023

BOOK NOW



Dunki

Google Chrome File Edit View History Bookmarks Profiles Tab Window Help

React App

localhost:3000/movies

Gmail YouTube Maps

Search Movies Here...

MOVIES ADMIN LOGIN

Basenji 1/12/2023 BOOK NOW

May December 1/12/2023 BOOK NOW

Godzilla Minus One 1/12/2023 BOOK NOW



Dunki 12/14/2023 BOOK NOW

localhost:3000/movies

React App

localhost:3000/admin

Gmail YouTube Maps

Search Movies Here...

MOVIES ADMIN LOGIN

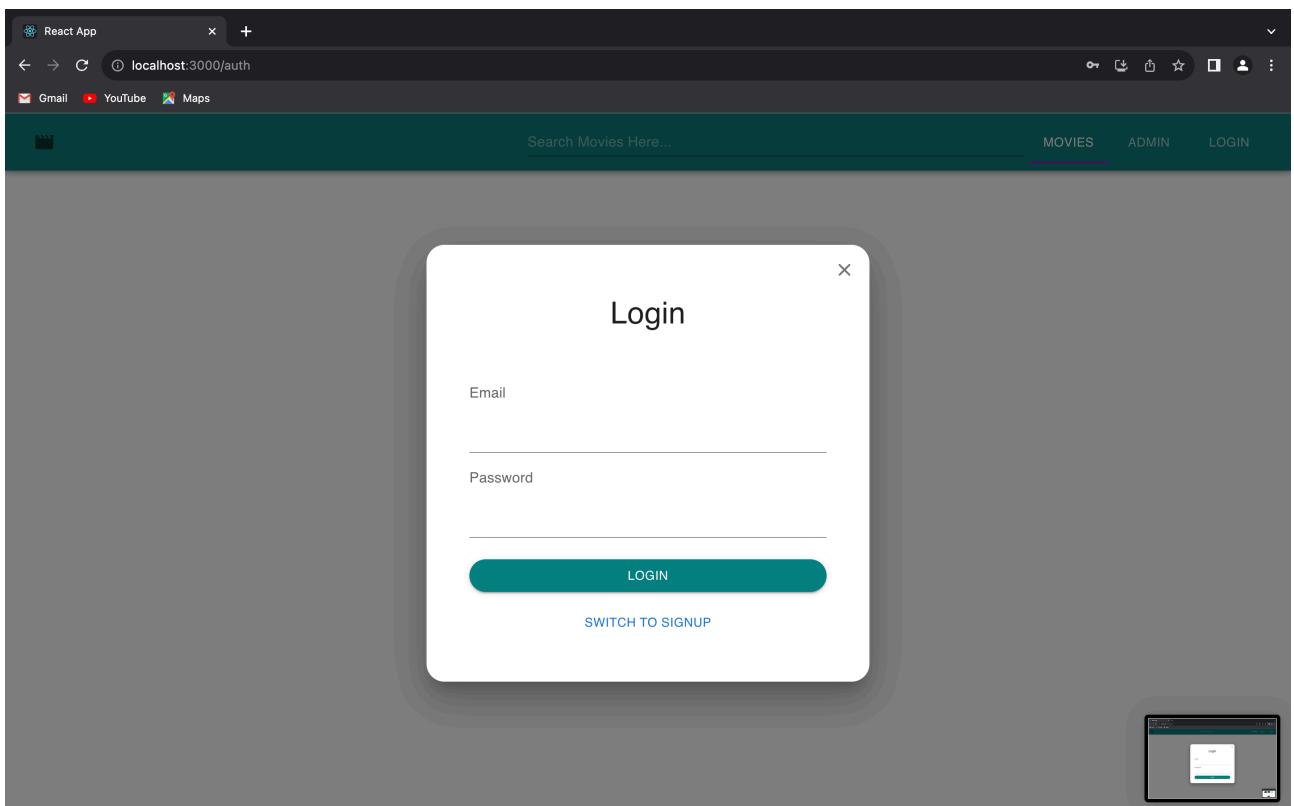
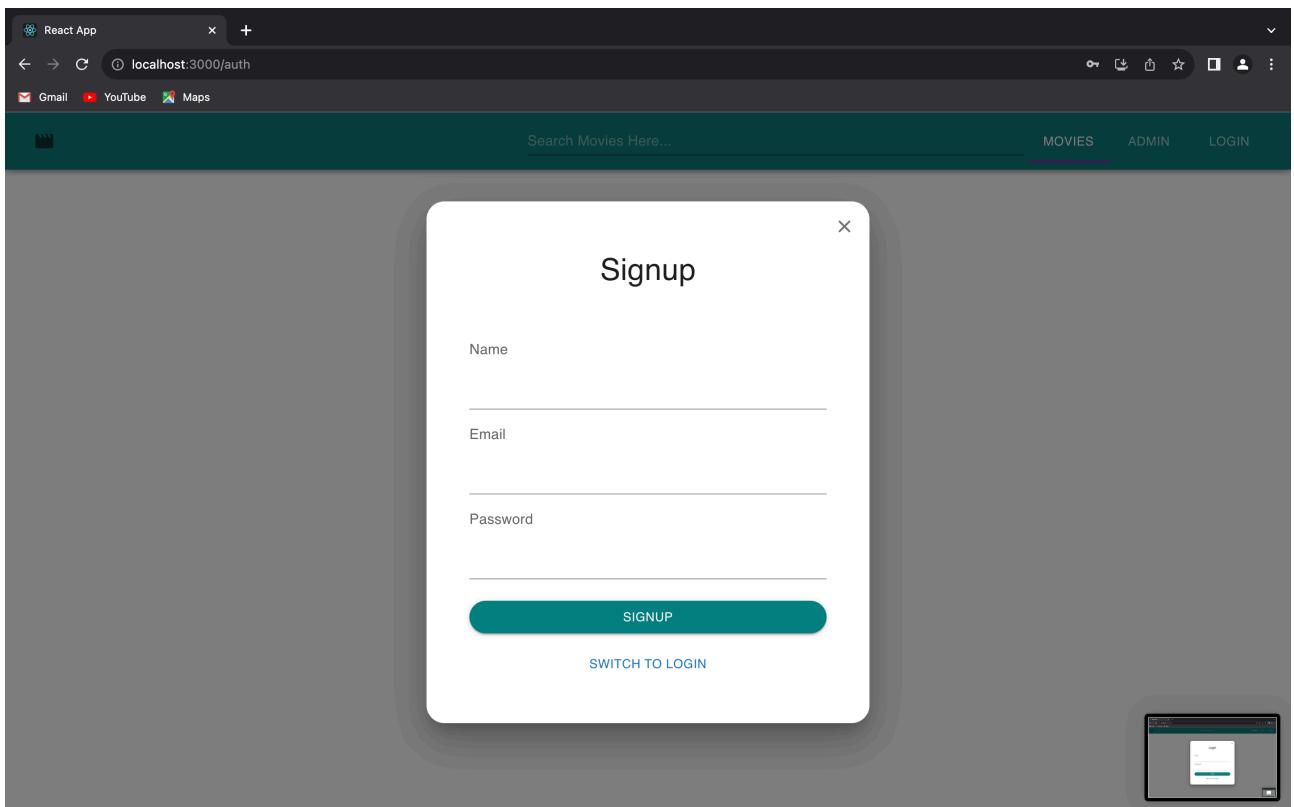
Login

Email

Password

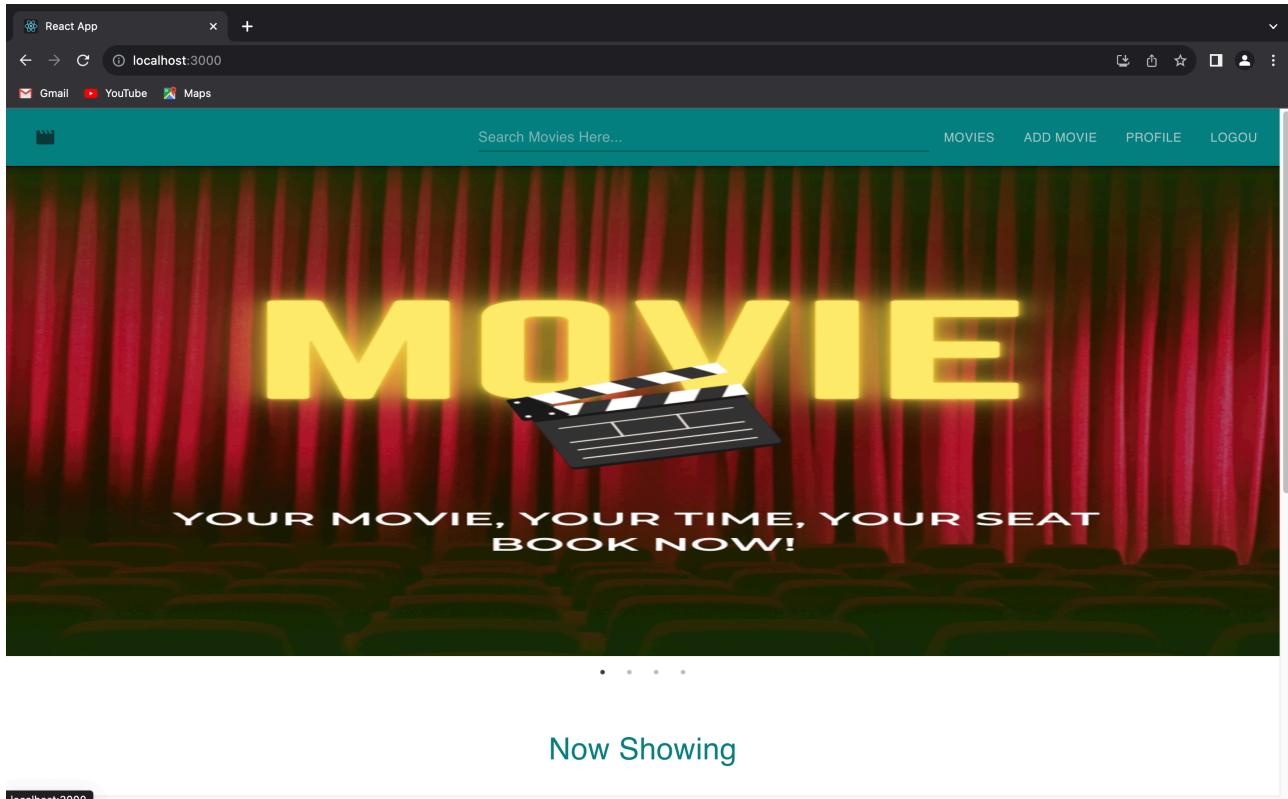
LOGIN



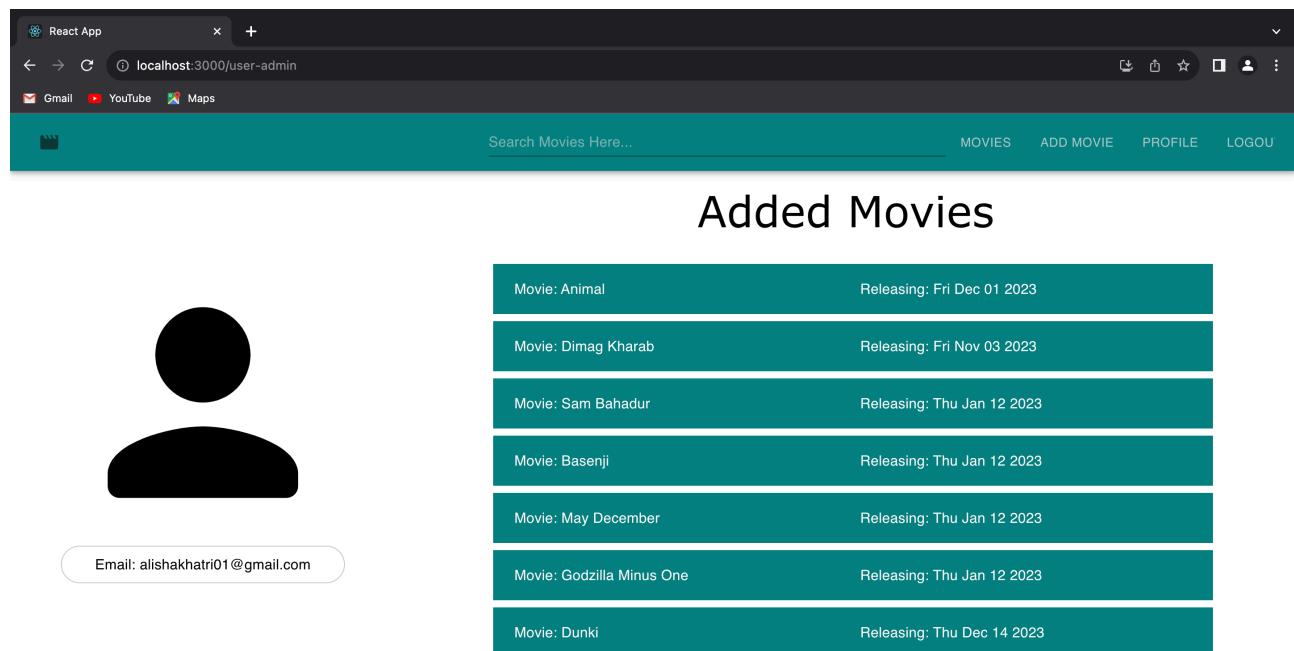


2. After Admin Login

- HomePage and Movies Section are Same.
- In Navbar, Add Movies, Profile and Logout is implemented.



The screenshot shows the homepage of a movie booking application. At the top, there is a navigation bar with links for MOVIES, ADD MOVIE, PROFILE, and LOGOUT. Below the navigation bar is a search bar labeled "Search Movies Here...". The main content area features a large, stylized yellow "MOVIE" title with a clapperboard graphic. Below the title, a row of red theater seats is visible. A promotional message reads: "YOUR MOVIE, YOUR TIME, YOUR SEAT BOOK NOW!". At the bottom of the page, there is a "Now Showing" section.



The screenshot shows the "Added Movies" page after logging in as an admin. The page has a teal header with the same navigation links: MOVIES, ADD MOVIE, PROFILE, and LOGOUT. On the left side, there is a large, black-outlined user profile icon. Below the profile icon, the email address "Email: alishakhatri01@gmail.com" is displayed. The main content area is titled "Added Movies" and lists seven movies in a table format:

Movie	Releasing
Movie: Animal	Releasing: Fri Dec 01 2023
Movie: Dimag Kharab	Releasing: Fri Nov 03 2023
Movie: Sam Bahadur	Releasing: Thu Jan 12 2023
Movie: Basenji	Releasing: Thu Jan 12 2023
Movie: May December	Releasing: Thu Jan 12 2023
Movie: Godzilla Minus One	Releasing: Thu Jan 12 2023
Movie: Dunki	Releasing: Thu Dec 14 2023

React App

localhost:3000/add

Gmail YouTube Maps

Add New Movie

Title

Description

Genre

Poster URL

Release Date

dd/mm/yyyy

Duration

Price

MOVIES ADD MOVIE PROFILE LOGOUT

Search Movies Here...

React App

localhost:3000/add

Gmail YouTube Maps

Add New Movie

Poster URL

Release Date

dd/mm/yyyy

Duration

Price

Actor

ADD

Featured

ADD NEW MOVIE

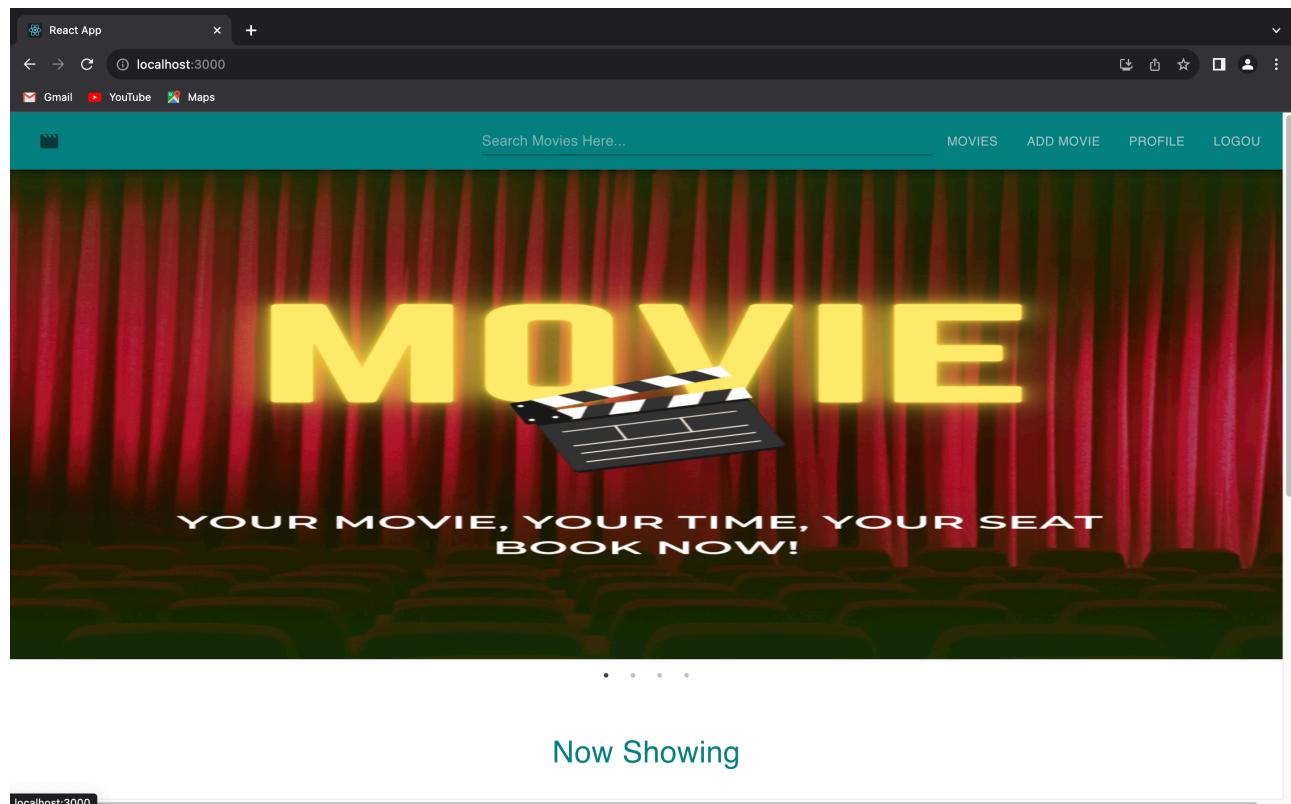
MOVIES ADD MOVIE PROFILE LOGOUT

Search Movies Here...



3. After Admin is logout and User is registered and loginned and booked movies.

- After clicking in button Book Now users are moved to the movie details page where the movie poster, description, actors, genre, release-date, duration and price is shown and book the ticket.
- And, After booking the users can see the booking details in their profile.
- In Navbar, Movies, Profile and Logout is implemented while the user is login.
- HomePage and Movies pages are similar in all the three.



React App

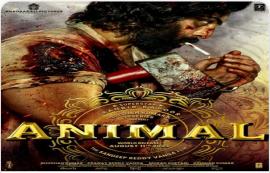
localhost:3000/movies

Gmail YouTube Maps

Search Movies Here...

MOVIES PROFILE LOGOUT

All Movies



Animal
12/1/2023

[BOOK NOW](#)



Dimag Kharab
11/3/2023

[BOOK NOW](#)



Sam Bahadur
1/12/2023

[BOOK NOW](#)



localhost:3000/booking/65786f76b5cee623c033fde4





React App

localhost:3000/booking/65786f76b5cee623c033fde4

Gmail YouTube Maps

Search Movies Here...

MOVIES PROFILE LOGOUT

Book Tickets for Dimag Kharab



Seat Number

Booking Date

dd/mm/yyyy

[BOOK NOW](#)

When bureaucratic barriers obstruct Indra Sharma's desire to work overseas, his dreams of a stable family life take a turbulent turn.

Starrings: Dayahang Rai Swastima Khadka Bijay Baral Arpan Thapa

Genre: Comedy Drama

Release Date: 11/3/2023

React App

localhost:3000/booking/65786f76b5cee623c033fde4

Gmail YouTube Maps

Search Movies Here... MOVIES PROFILE LOGOUT



Seat Number

Booking Date

dd/mm/yyyy

BOOK NOW

When bureaucratic barriers obstruct Indra Sharma's desire to work overseas, his dreams of a stable family life take a turbulent turn.

Starrings: Dayahang Rai Swastima Khadka Bijay Baral Arpan Thapa

Genre: Comedy Drama

Release Date: 11/3/2023

Duration: 160 mins

Price: Rs. 400

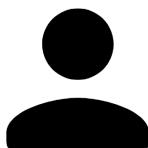


React App

localhost:3000/user

Gmail YouTube Maps

Search Movies Here... MOVIES PROFILE LOGOUT



Bookings

Movie: Dimag Kharab	Seat: 45	Date: Thu Dec 21 2023	
Movie: May December	Seat: 45	Date: Thu Dec 14 2023	

Name: Alisha Khatri

Email: alishakh@gmail.com