



BHARATIYA VIDYA BHAVAN'S
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Department of Computer Engineering

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Division & Batch:	Division - D & Batch - D
Experiment No:	07
Title:	Implementation of Theatre Management System

Project Abstract

The Theatre Management System (TMS) is a comprehensive, full-stack web application designed to streamline theatre operations. It provides a seamless interface for both customers and administrators. The system is built using modern web technologies, including React for the frontend, Node.js and Express for the backend, and MySQL for the database.

The primary goal of TMS is to offer a complete solution for movie browsing, ticket booking, and reservation management. For users, it offers an intuitive interface to browse movies, view details, watch trailers, select seats using an interactive map, and book tickets securely. The system supports payment processing and automatically generates PDF tickets with QR codes for verification. Users can also manage their profiles and booking history, including the option to cancel reservations.

For administrators, TMS provides a powerful dashboard with analytics on bookings, revenue, and theatre occupancy. It allows for easy management of movie listings, show scheduling, and monitoring of all customer bookings. The system incorporates role-based access control to ensure that only authorized personnel can access administrative features. This project aims to provide a robust and user-friendly platform that enhances the movie-going experience and simplifies theatre management.

Screenshots and Feature Explanation

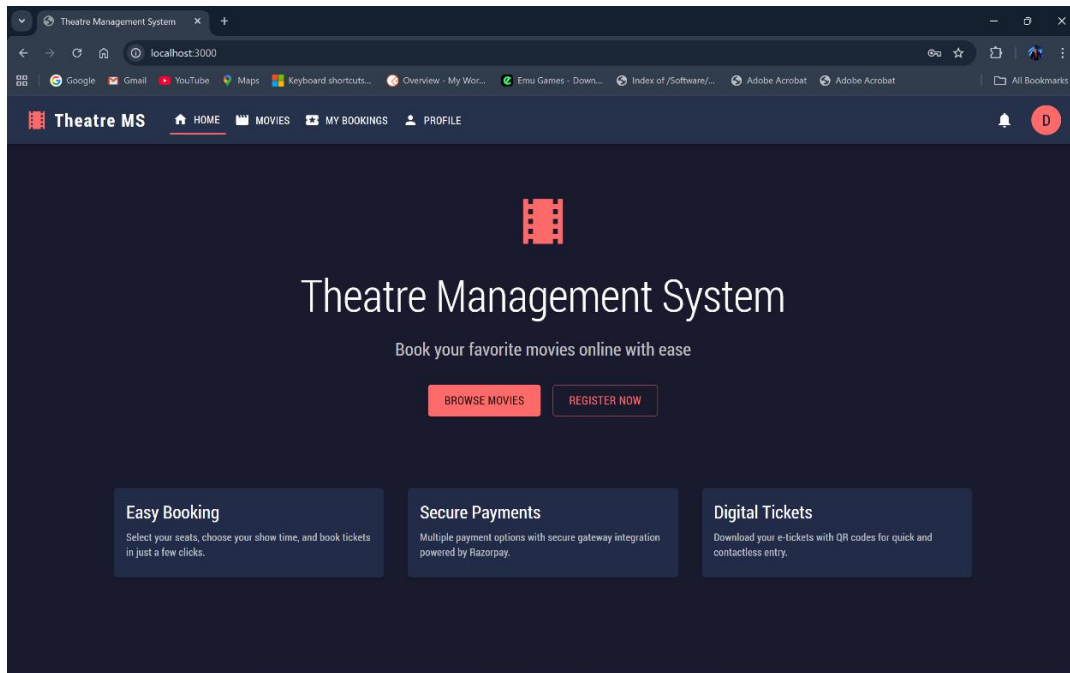
Here are some screenshots of the application, illustrating its key features and workflow.

1. Home Page

- **Screenshot:**



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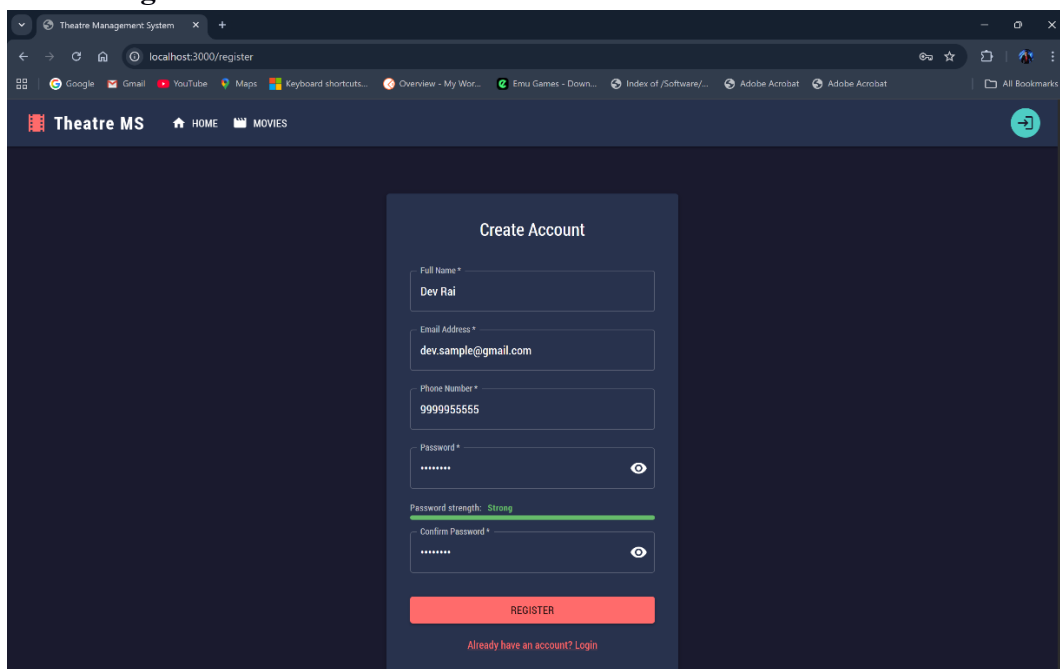


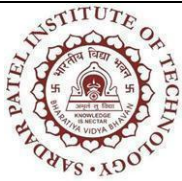
- **Explanation:** The landing page presents a clean and engaging interface, showcasing currently running movies. Users can easily browse through the available films and select one to view more details.

2. User Authentication

- **Screenshots:**

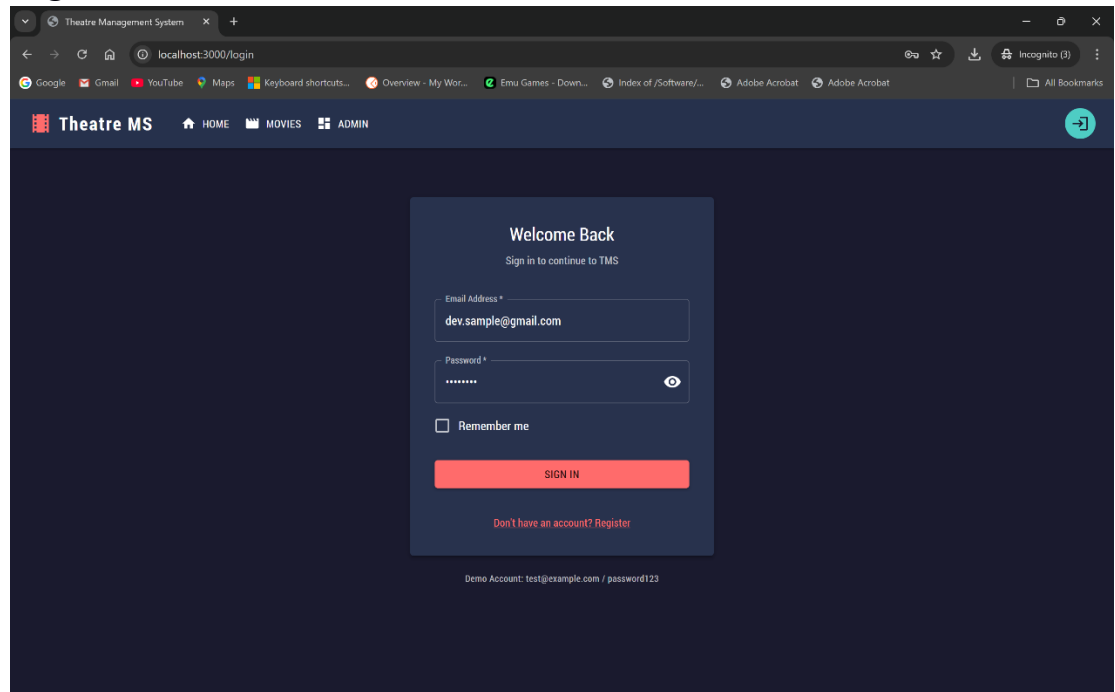
- **Registration:**





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○ **Login:**

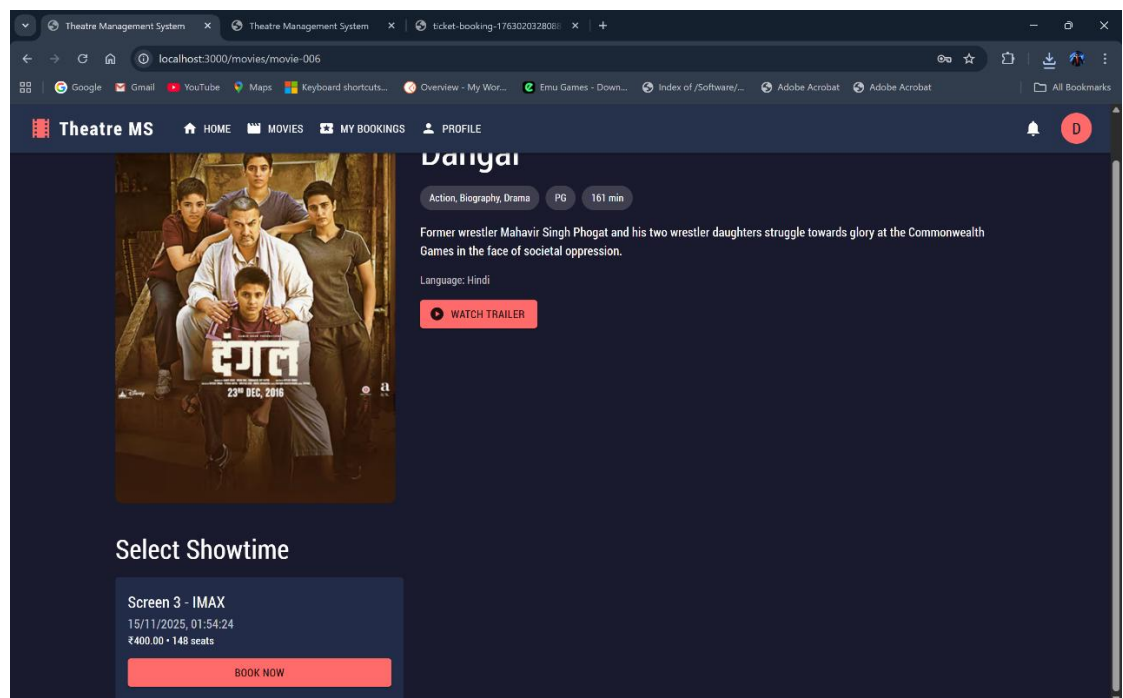


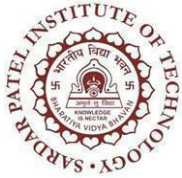
- **Explanation:** The system includes a secure user authentication process. New users can register for an account, and existing users can log in to access their profiles and booking information.

3. Movie Details and Trailer

- **Screenshots:**

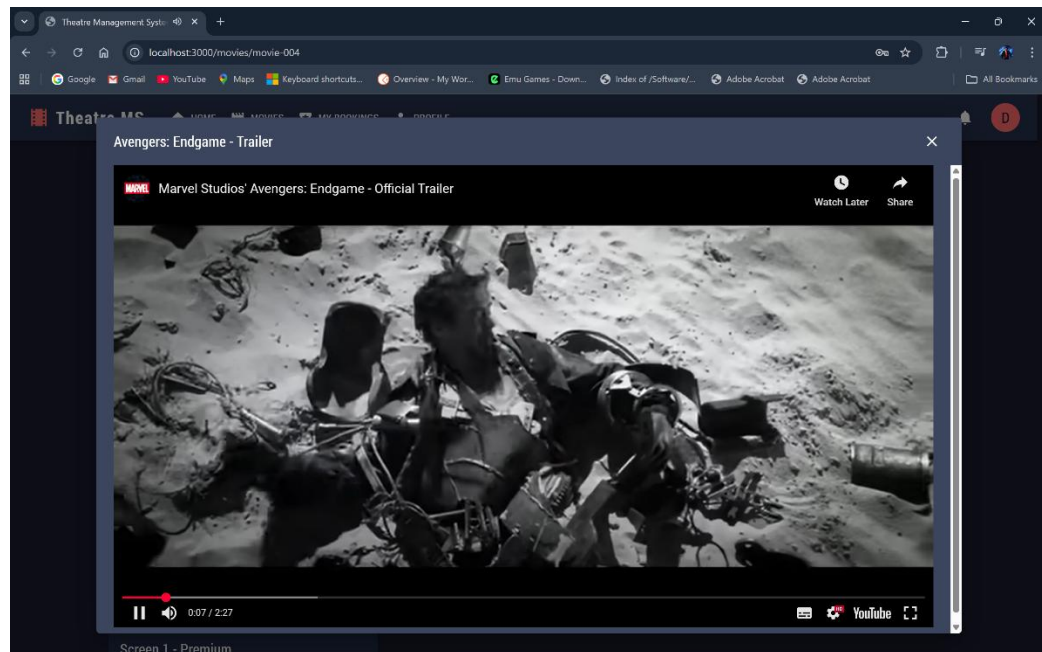
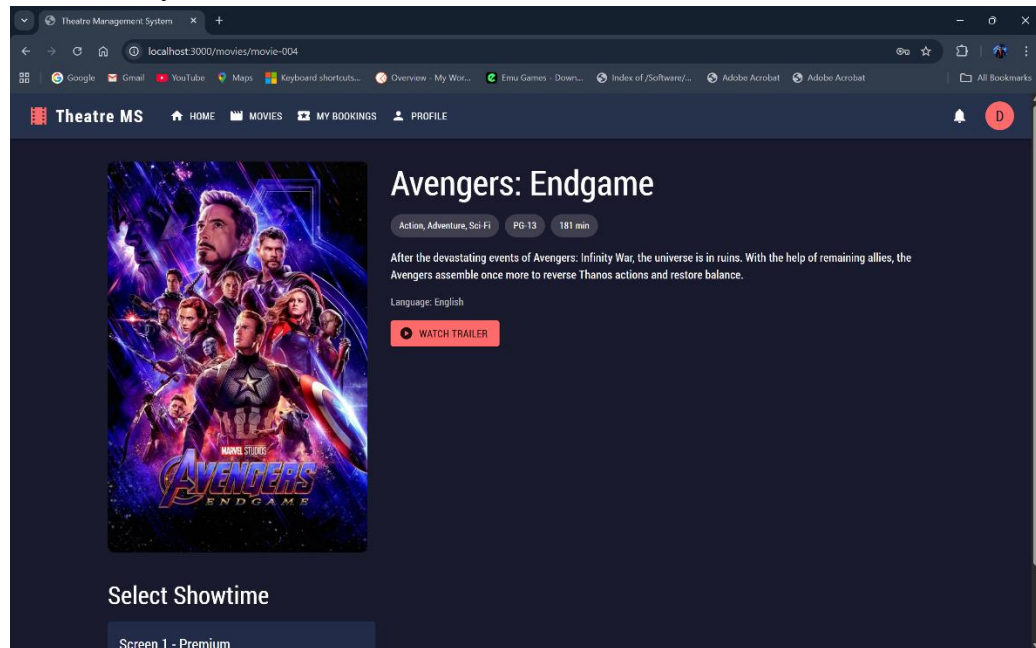
○ **Movie Details:**





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- **Trailer Playback:**



- **Explanation:** When a user selects a movie, they are presented with a detailed view that includes the synopsis, genre, duration, and ratings. The system also allows users to watch the movie trailer directly on the page.

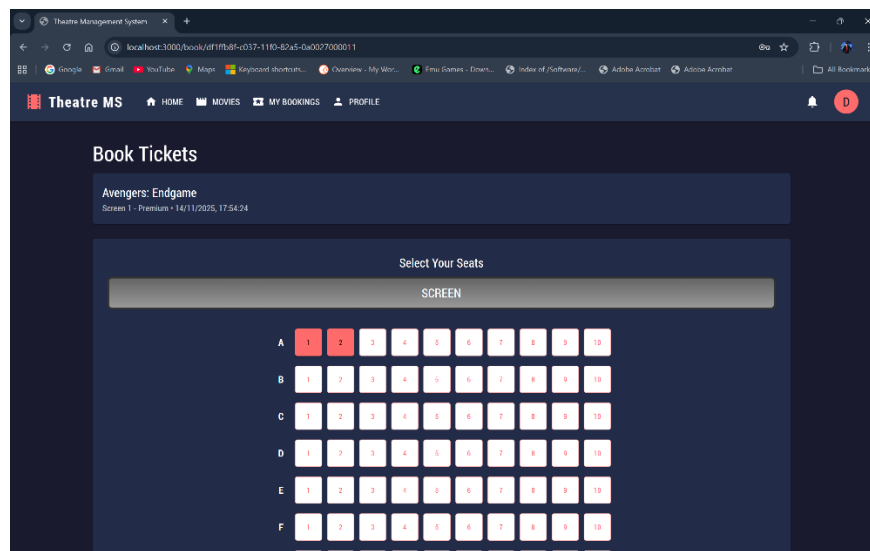
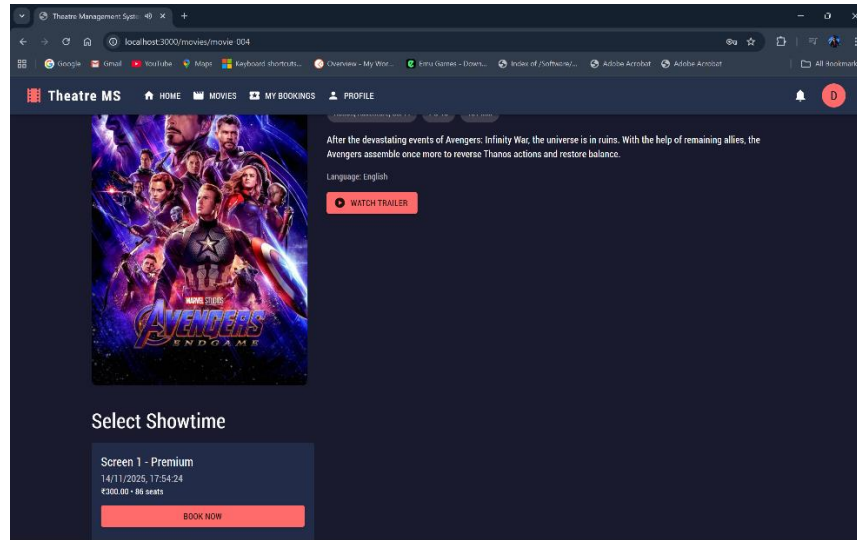
4. Seat Selection and Booking

- **Screenshots:**

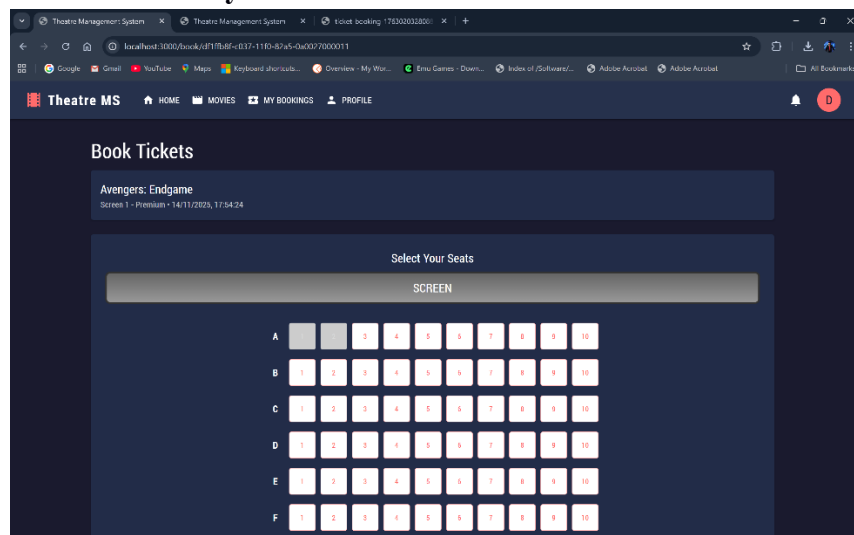
- **Seat Selection Interface:**



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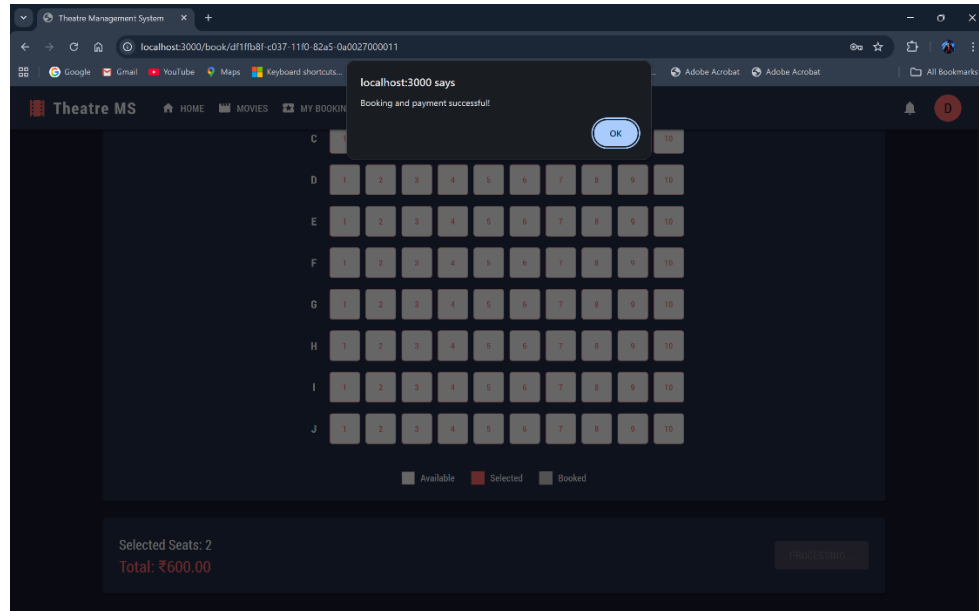
○ **Booked Seat Layout:**





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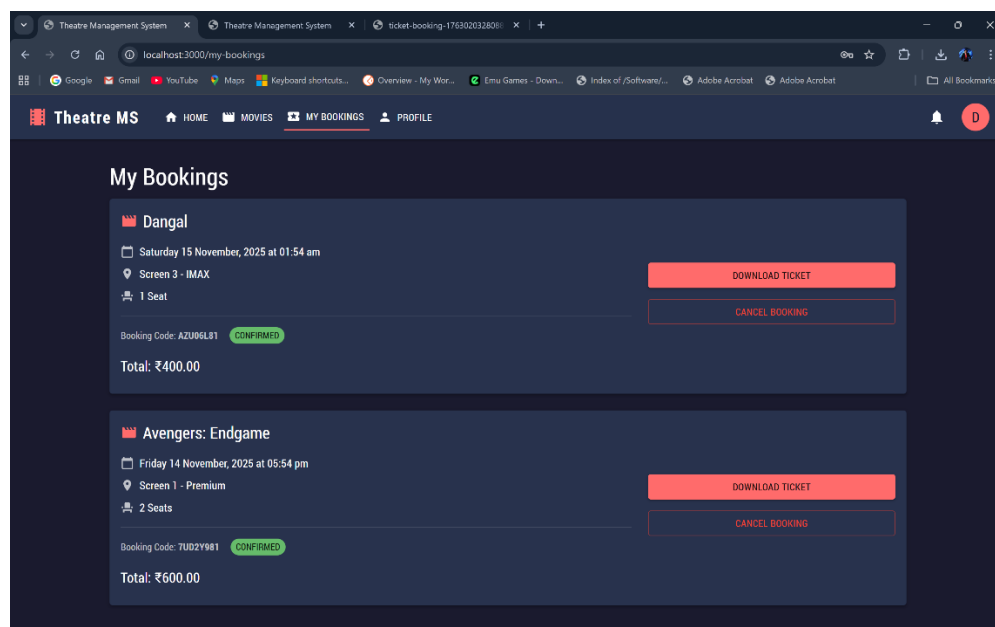
- **Booking Confirmation:**



- **Explanation:** The booking process features an interactive seat map that displays real-time availability. Users can select their preferred seats, which are then reserved. After a successful booking, a confirmation message is displayed.

5. Booking Management

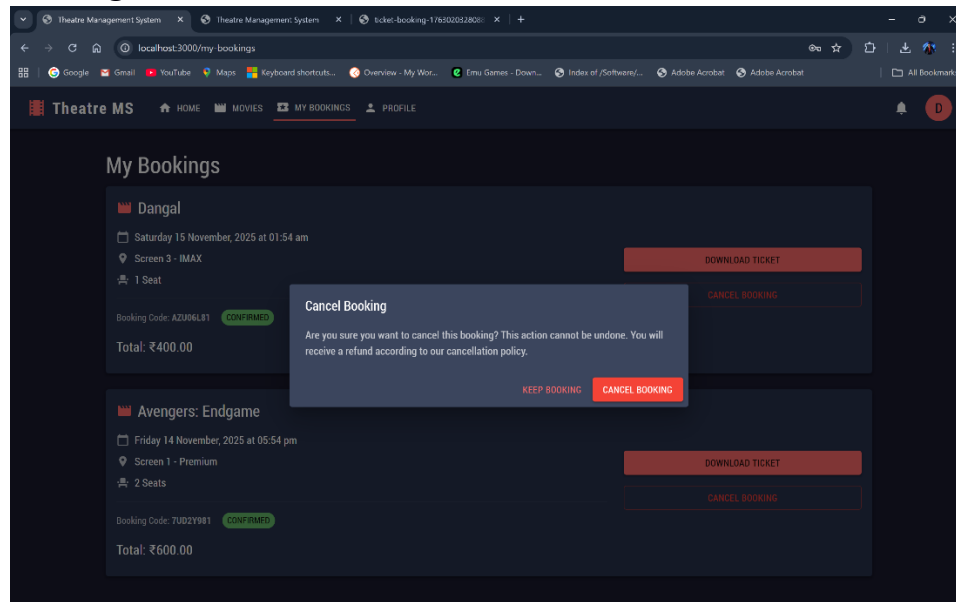
- **Screenshots:**
 - **My Bookings:**





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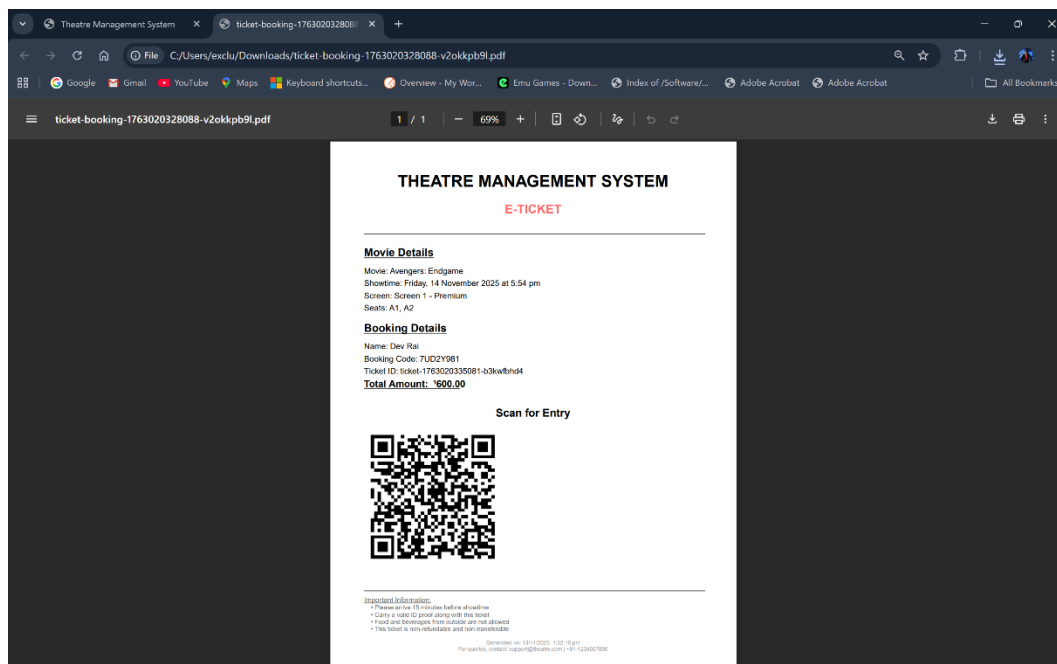
○ **Booking Cancellation:**



- **Explanation:** Users can view their booking history in the "My Bookings" section. From here, they have the option to cancel a booking if needed, with a confirmation prompt to prevent accidental cancellations.

6. PDF Ticket Generation

- **Screenshot:**



- **Explanation:** Upon successful payment, the system automatically generates a PDF ticket containing all the relevant booking details and a unique QR code for verification at the theatre.

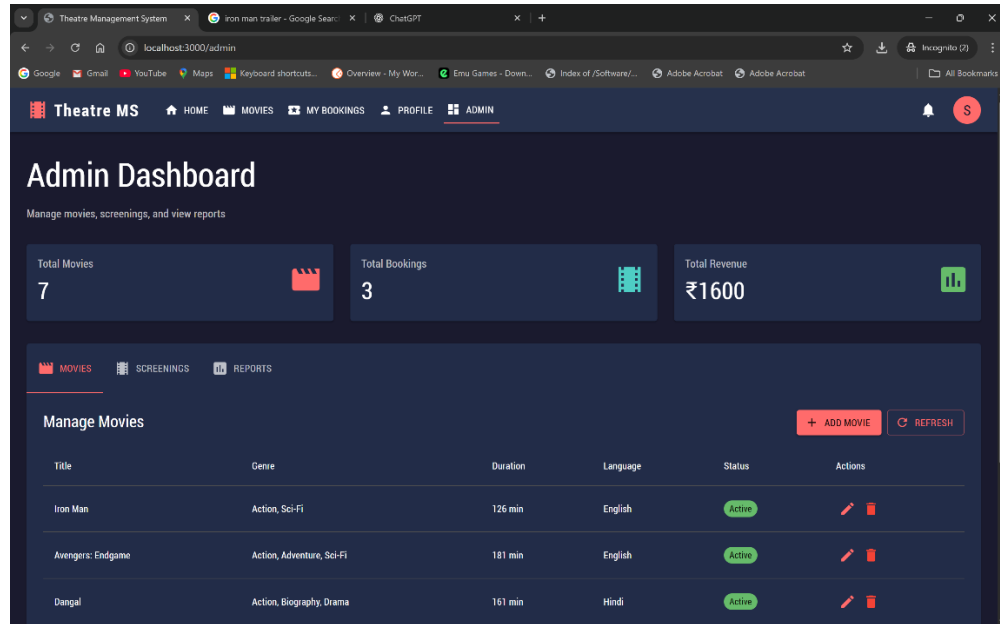


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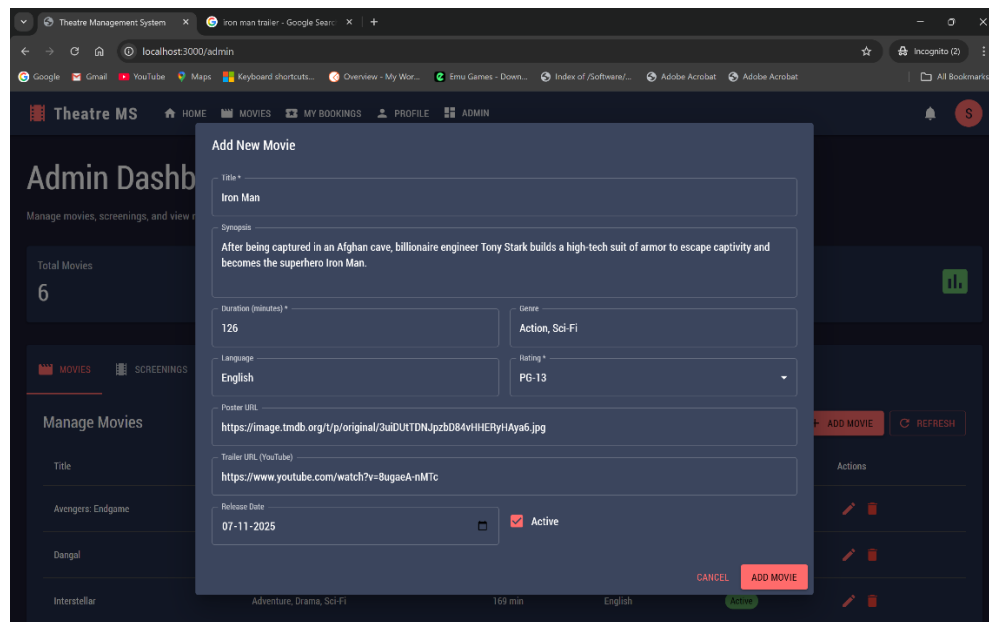
7. Admin Dashboard and Movie Management

- **Screenshots:**

- **Admin Dashboard:**



- **Add New Movie:**



- **Explanation:** The admin dashboard provides a comprehensive overview of the theatre's operations. Administrators can add new movies to the system by filling out a form with all the necessary details, such as the title, poster, and release date.