Movie Ticket Booking System

Submited By:
Team Alpha

Submitted To:
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Project Lab

Outline

Team Introduction

Team Name: Team Aplha

We are a team of three members:

- **Member 1:** Ashlesh Singh Chouhan
- **Member 2:** Himanshu Sharma
- **Member 3:** Yuvraj Lamba

Introduction

- With the growth of online services, the demand for digital ticket booking systems has increased significantly.
- Our project, *Cinema-Connect*, is a web-based platform built using React.js and MongoDB to facilitate easy and efficient movie ticket booking.
- Users can explore currently airing movies, choose theaters in their city, select screens and seats, and securely complete payments via Razorpay.
- The system also supports features like email confirmation, rental movies, upcoming movie previews, and a special Indian cinema section.

Problem Statement

- Traditional ticket booking methods involve long queues and manual processes, causing inconvenience to users.
- Existing online booking systems often lack personalization, real-time seat updates, and accessibility for all user types.
- Users may face challenges with complex interfaces, failed transactions, or limited payment options.
- Cinema operators struggle with managing schedules, tracking bookings, and responding to user queries effectively.
- There is a need for an integrated, user-friendly, and secure system that simplifies movie ticket booking and enhances the overall user experience.

Objective

- Develop a web-based *Cinema Connect* platform to simplify and accelerate movie ticket booking.
- Provide real-time seat availability and dynamic pricing for selected screens.
- Integrate secure payment processing via Razorpay in test mode, ensuring seamless transactions.
- Implement user account management with *My Bookings* and rental history features.
- Send automated email confirmations upon successful bookings or rentals.
- Offer sections for currently airing, upcoming, and Indian cinema movies with filtering by city and hall.
- Design an intuitive React.js frontend backed by a MongoDB database for scalability and performance.

Literature Survey

- **Online Movie Ticketing Systems:** Platforms like BookMyShow and Fandango offer digital solutions for booking tickets but face challenges in real-time seat updates and UI complexity.

- **Payment Gateway Integration:** Studies show that integrating secure and flexible gateways like Razorpay and Stripe improves user trust and transaction success rates.

- **User Experience in Web Apps:** Research emphasizes the importance of responsive, mobile-friendly, and accessible interfaces for maximum user engagement.

- **Email and Notification Systems:** Automated confirmation emails and alerts increase user satisfaction and reliability of booking systems.

- **Security and Authentication:** Implementing JWT-based authentication and secure data handling (SSL, AES) is crucial for modern web applications handling personal and financial data.

Importance of Real-Time Booking and Updates

- **Enhanced User Engagement:** Real-time seat availability and booking confirmation provide users with a smooth, frustration-free experience, encouraging more frequent and confident usage.
- **Dynamic Seat Allocation:** Live synchronization allows for immediate updates when seats are booked or released, preventing overbooking and ensuring fair access to available seats.
- **Improved System Reliability:** Real-time updates in payments, bookings, and notifications foster trust in the platform and reduce transaction failures, enhancing overall user satisfaction.
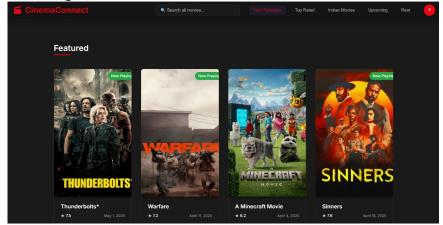
Proposed Work

- **User Authentication:** Secure login and registration system using JWT to protect user sessions and manage access control.
- **Movie Browsing and Search:** Users can explore movies by genre, language, and city with real-time filtering and showtime listings.
- **Seat Selection and Booking:** Interactive seat maps enable users to choose and reserve seats dynamically with real-time updates.
- **Payment Integration:** Razorpay (test mode) integration allows users to make secure online payments.
- **Email and QR Ticket Generation:** Automatic email confirmation with PDF ticket and QR code for validation.
- **Admin Dashboard:** Admins can manage movies, showtimes, halls, and monitor booking statistics.
- **My Bookings and Rentals:** Users can view past bookings and rented movies through a personalized dashboard.

Expected Outcome

The **CinemaConnect** platform is expected to deliver the following outcomes upon successful implementation:

- **Seamless Booking Experience:** Users will be able to browse movies, select seats, and make payments efficiently through an intuitive interface.
- **Real-Time Updates:** Live seat availability and booking confirmation will enhance reliability and prevent overbooking.
- **Integrated Payment System:** Secure transactions through Razorpay will ensure smooth and trustworthy payment processing.
- **QR Code-Based E-Tickets:** Automatically generated QR tickets will simplify entry at cinema halls and reduce dependency on physical tickets.
- **Responsive and Scalable Design:** The system will be accessible across devices and scalable to handle large user bases and multiple cinema halls.

Project Screenshot

- **Home Page:**

Project Screenshot

- **Movie Page:**

Project Screenshot

- **Seat Selection**

Project Screenshot

- **Ticket Confirmation:**

Booking Confirmed!

CinemaConnect
E-Ticket

Sinners

Date:	Friday, May 9, 2025
Theater:	PVR Delhi
Screen:	Screen 1 - Standard
Time:	10:00 AM
Seats:	D3, D4, D5

QR

681dabb246df780
0b547c901

Please show this ticket at the entrance

Thank you!