

Movie Ticket Booking System

Submitted By:
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Submitted To:
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Project Lab



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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.

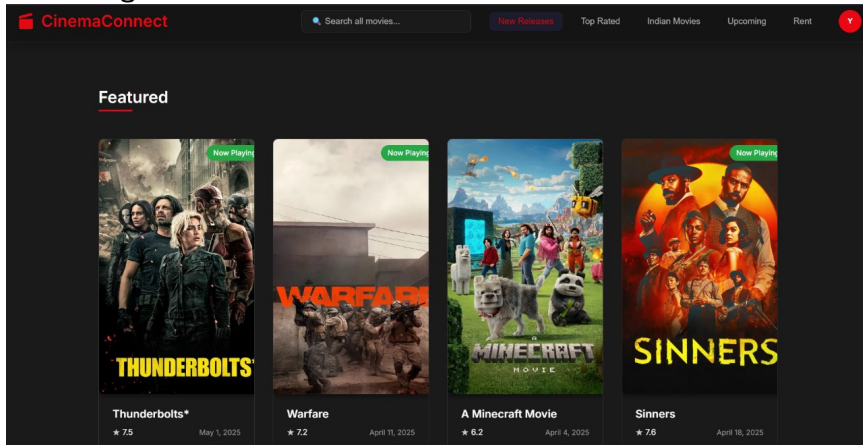
Expected Outcome

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:



SINNERS

Sinners

★ 7.564/10 mins 2025-04-18

Trying to leave their troubled lives behind, twin brothers return to their hometown to start again, only to discover that an even greater evil is waiting to welcome them back.

Select City

Delhi

Select Date

Fri 9	Sat 10	Sun 11	Mon 12	Tue 13	Wed 14	Thu 15
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Select Theater

PVR Delhi
Select City Walk, Saket

INOX Delhi
Ambience Mall, Vasant Kunj

Cinepolis Delhi
Pacific Mall, Subhash Nagar

Carnival Delhi
DLF Promenade, Vasant Kunj

Project Screenshot

• Seat Selection

The screenshot displays a movie seat selection interface. At the top, the movie title "Sinners" is shown. Below it, the location and date are specified: "PVR Delhi • Screen 1 - Standard • Friday, May 9, 2025 • 10:00 AM". The main section is titled "Select Your Seats" and features a grid of seats labeled A through G and 1 through 10. The seats are color-coded: green for Standard, yellow for Premium, red for Selected, and grey for Booked. In the grid, seats 3 and 4 in row D are red, while all other seats are green or yellow. To the right of the grid is a "Booking Summary" section. It shows "Selected Seats" as D3, D4, and D5. The "Ticket Price" is ₹150, the "Number of Seats" is 3, and the "Total Amount" is ₹450. A red button labeled "Book Tickets" is at the bottom of the summary. A legend at the bottom of the grid identifies the colors: green for Standard, yellow for Premium, red for Selected, and grey for Booked.

Sinners

PVR Delhi • Screen 1 - Standard • Friday, May 9, 2025 • 10:00 AM

Select Your Seats

SCREEN

	1	2	3	4	5	6	7	8	9	10
A	1	2	3	4	5	6	7	8	9	10
B	1	2	3	4	5	6	7	8	9	10
C	1	2	3	4	5	6	7	8	9	10
D	1	2	3	4	5	6	7	8	9	10
E	1	2	3	4	5	6	7	8	9	10
F	1	2	3	4	5	6	7	8	9	10
G	1	2	3	4	5	6	7	8	9	10

Booking Summary

Selected Seats
D3 D4 D5

Ticket Price ₹150
Number of Seats x 3
Total Amount ₹450

Book Tickets

Standard Premium Selected Booked

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!