GET MY PADAM



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Problem Statement

- Booking movie tickets traditionally requires customers to visit theaters in person, leading to long queues and limited convenience.
- Customers and administrators should be able to perform different operations such as viewing movies, selecting seats, managing shows, and confirming bookings online.
- A user-friendly movie reservation web application provides the perfect solution to this problem.

Challenges Faced

Real-time Seat Management: Ensuring seats are not double-booked when multiple users book simultaneously.

Email Automation: Designing dynamic, user-friendly email templates for booking confirmation.

Authentication & Authorization: Protecting user data and restricting admin functionalities.

Frontend-Backend Sync: Maintaining smooth communication between Angular and .NET Core APIs.

Scalability: Designing the system to handle high traffic during popular movie releases

Functional Requirements

- Admin:

Should be able to login using credentials and access dashboard.

Can add, edit, delete and view movies.

Can assign movies to theatres with timings.

Can view list of registered users.

Can manage shows

- User:

Should be able to register and login using credentials.

Can view movies with posters and basic info.

Can view theatres and showtimes.

Can book tickets for available shows.

Can view and download their bookings.

Non - Functional Requirements

Performance: Quick response; bookings and searches load within 3 seconds.

Scalability: Supports growing users, theatres, and bookings without performance drop.

Security: Secure authentication; encrypt passwords & payment details.

Availability: Minimum 99.9% uptime for users and admins.

Usability: Clean, intuitive interface accessible via desktop & mobile.

Maintainability: Modular design for easy updates and bug fixes.

Data Integrity: Accurate, consistent, and protected booking & payment records.

Scope

Scope of Admin:

- Manage Movies:
 - Add, update, and delete movie details.
- Manage Theaters:
 - Add, update, and delete theater details.
- View Users:
 - Search and view registered user details.
- Authentication:
 - Secure login using JWT token-based authentication.

Scope

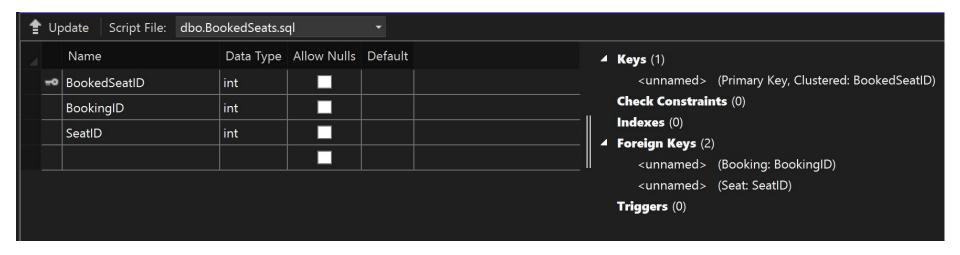
Scope of User:

- Register and Login:
 - Register with required credentials and login using email and password.
- Browse Movies:
 - View list of all available movies with posters and basic details.
- Browse Theaters:
 - View theaters screening a particular movie.
- Bookings and Payments.
 - Book tickets, select seats, make payments, view booking history.

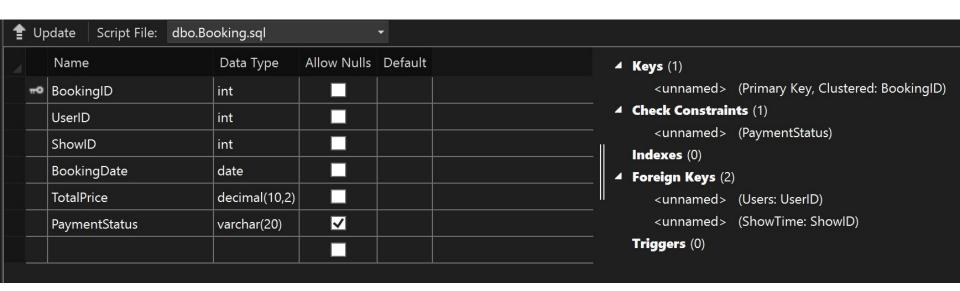
Database Tables



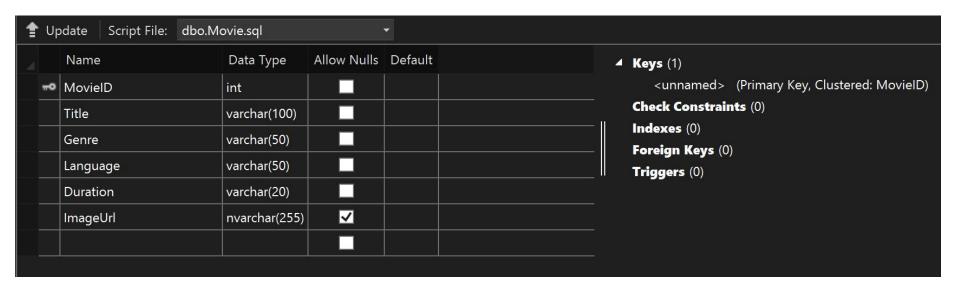
Booked Seats table



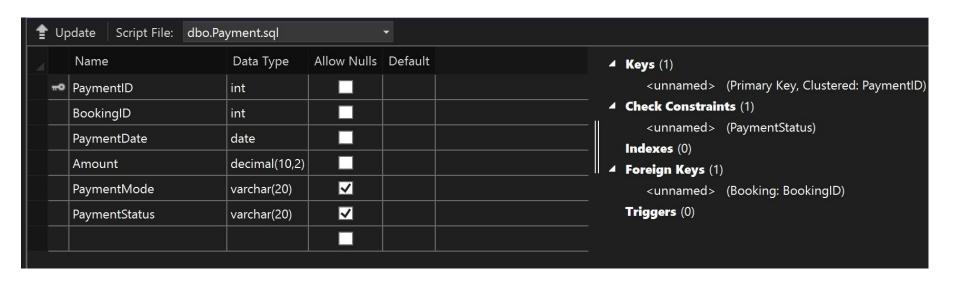
Booking Table



Movie Table



Payments Table



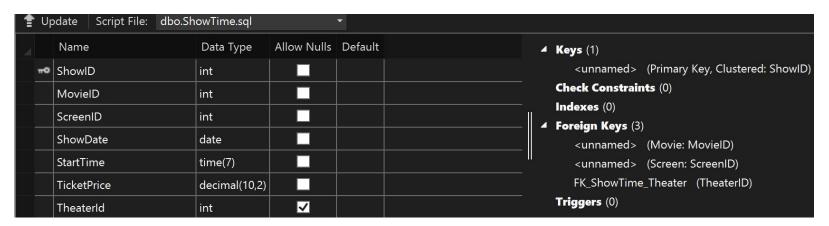
Screen Table

1 ∪	pdate Script File:	dbo.Screen.sql	▼	
	Name	Data Type	Allow Nulls Defau	ılt
₩0	ScreenID	int		<unnamed> (Primary Key, Clustered: ScreenID)</unnamed>
	TheaterID	int		Check Constraints (0)
	ScreenName	varchar(50)		Indexes (0)
	TotalSeats	int		✓ Foreign Keys (1) <unnamed> (Theater: TheaterID)</unnamed>
	Туре	varchar(20)	✓	Triggers (0)

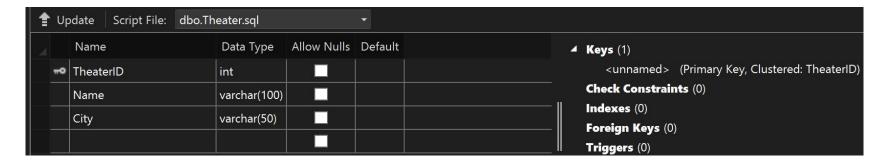
Seat Table



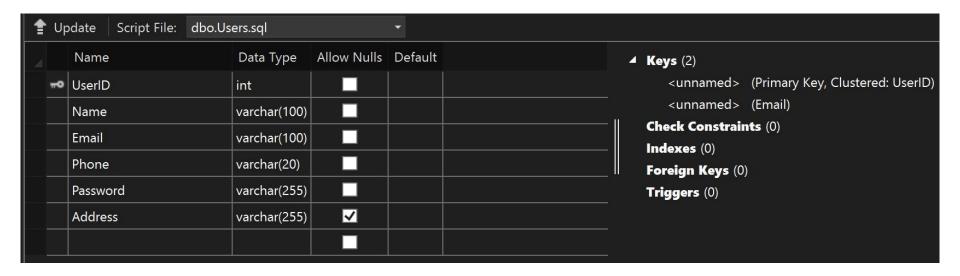
ShowTime Table



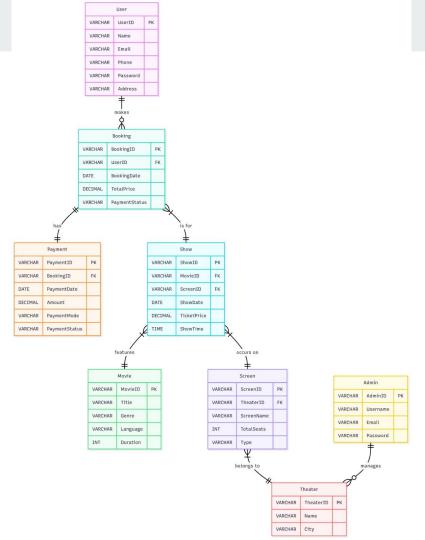
Theatre Table



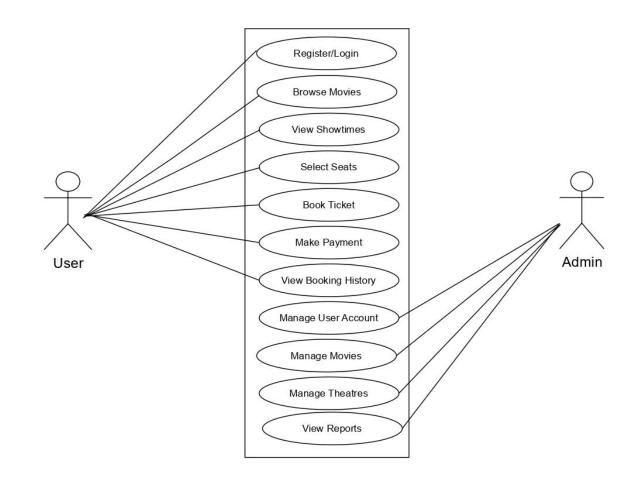
Users Table



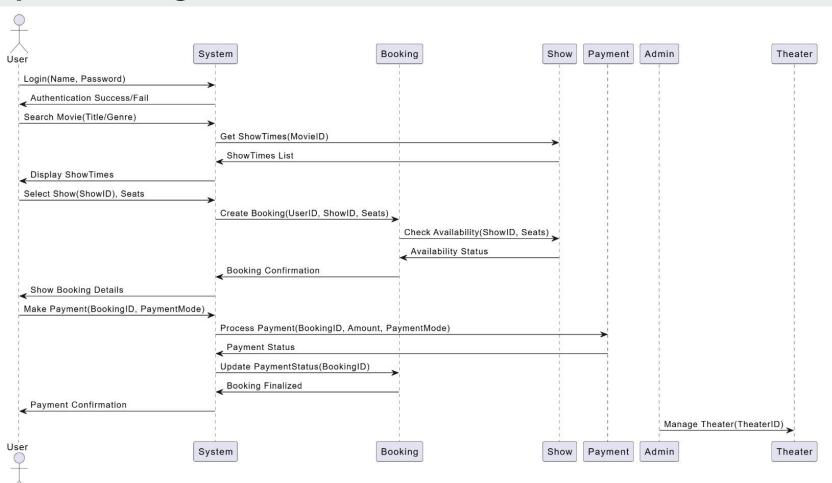
ER Diagram



Use Case Diagram



Sequence Diagram



Software and Hardware Requirements

Operating system : Windows.

Language : C#, Type Script.

Framework : Angular, ASP.Net

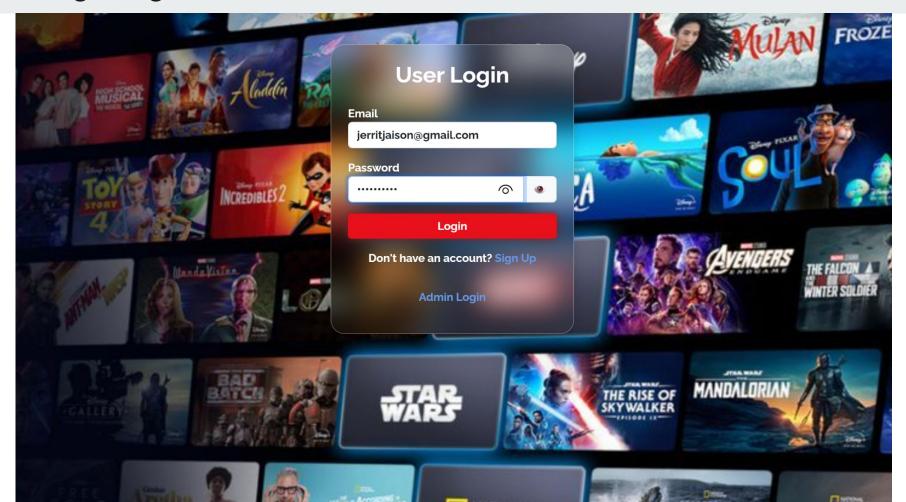
Softwares : SQL management studio.

Visual studio.

Visual studio code.

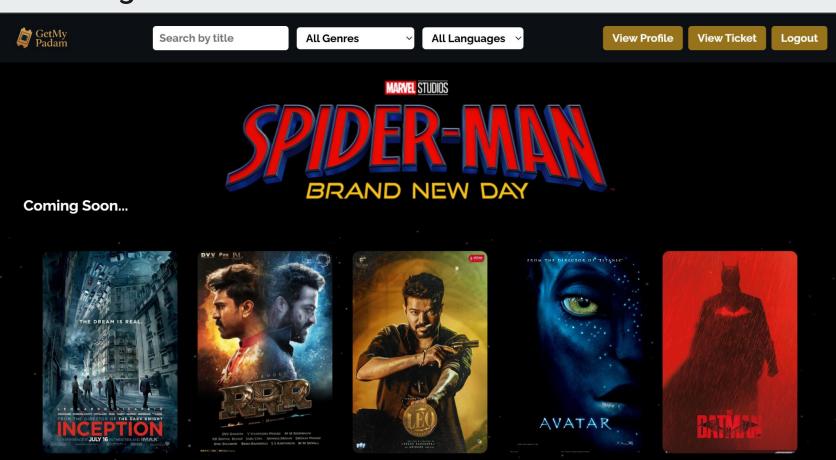
SCREEN FLOW(UI)

Login Page



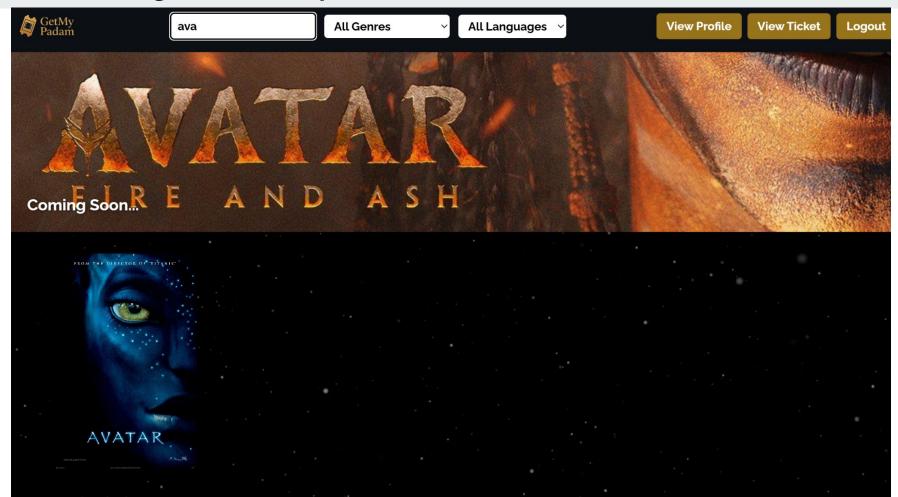
Home Page

MCGALLERY HATTAN CHITTAN ... CARE
EXPERIENCE IT IN IMAX



14TH APRIL

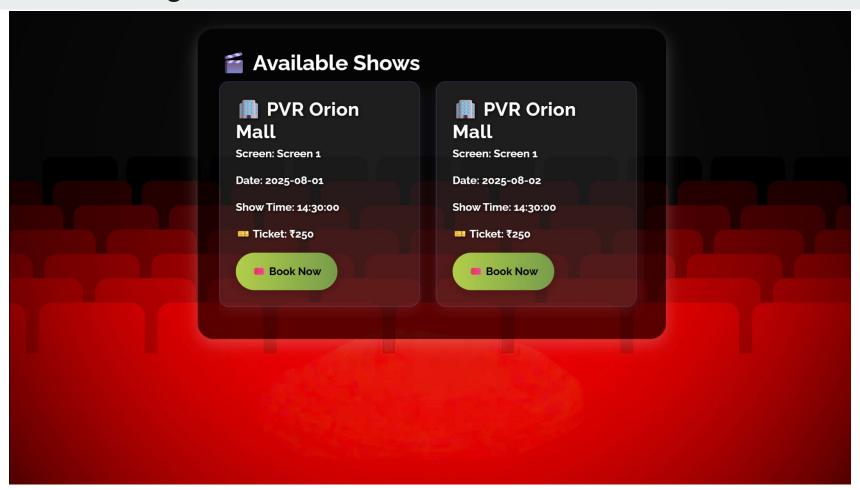
Home Page - Search Option



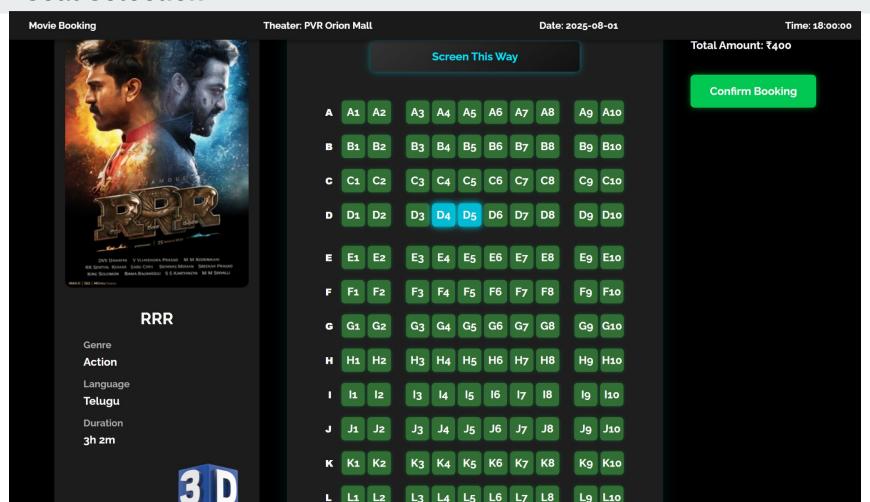
User Profile



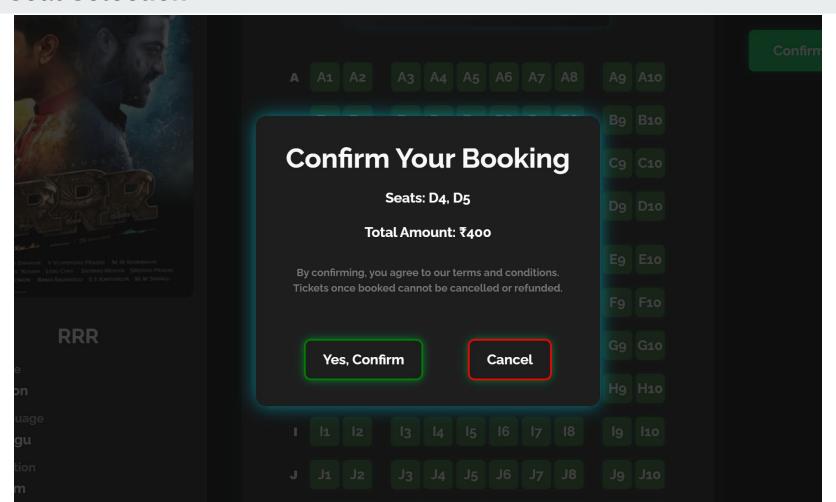
Theatres Page



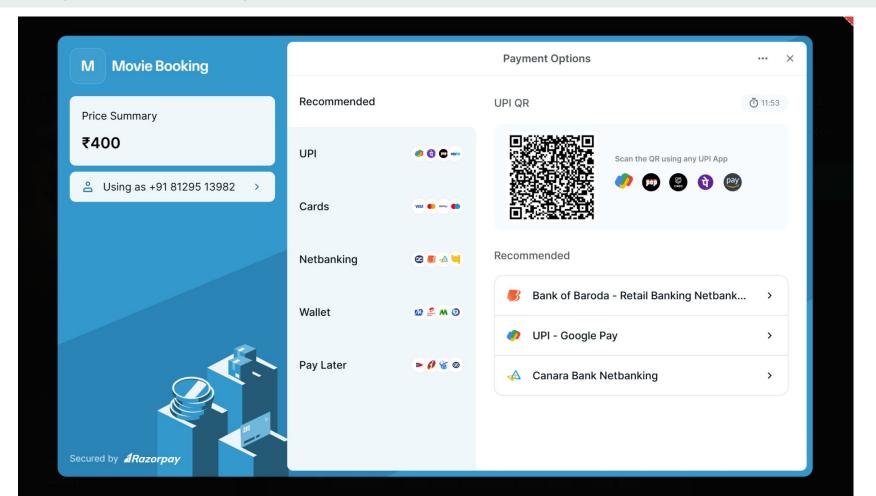
Seat Selection



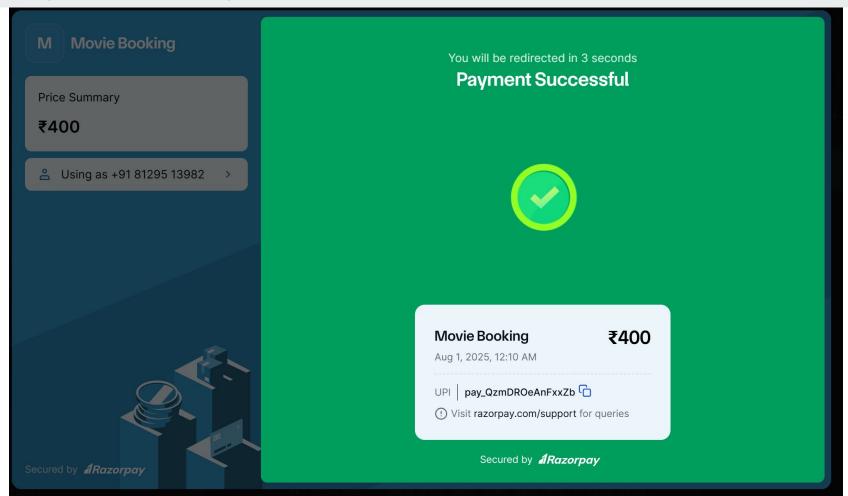
Seat Selection



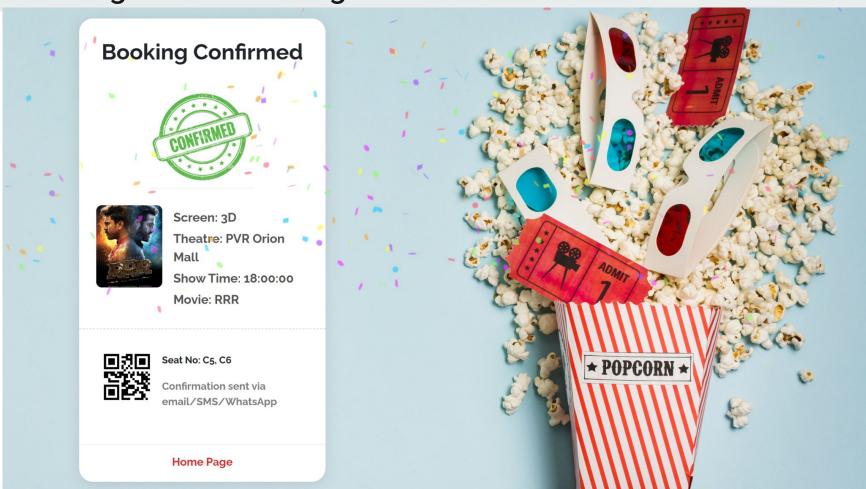
Payment Gateway



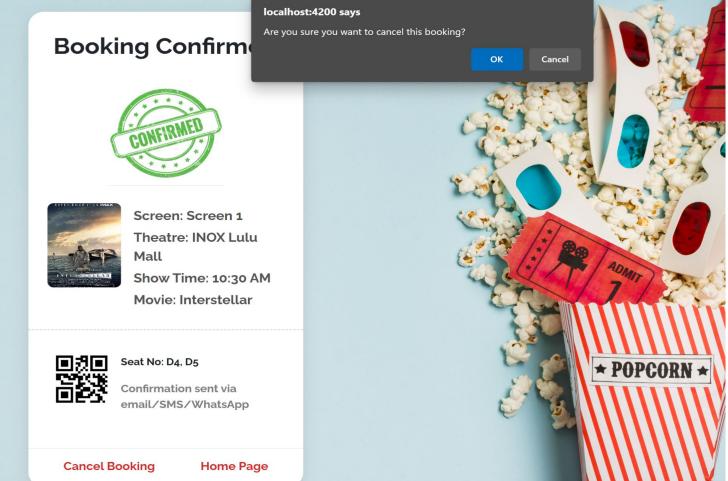
Payment Gateway



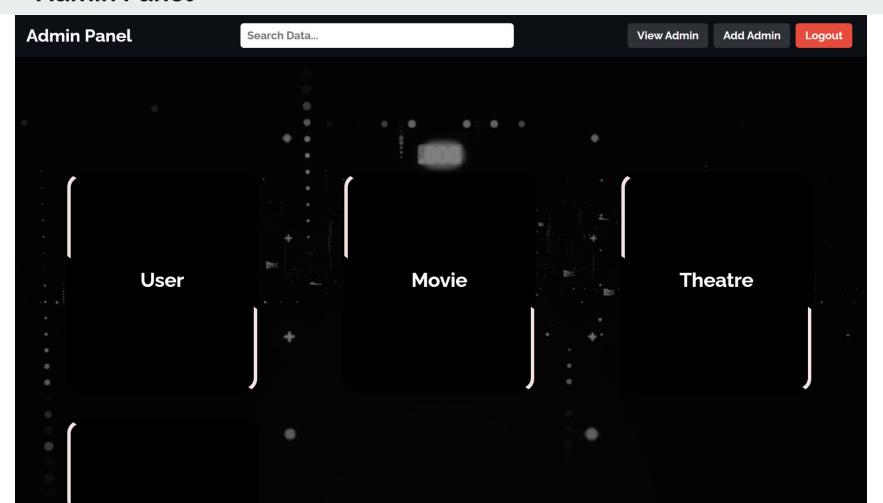
Booking Confirmation Page



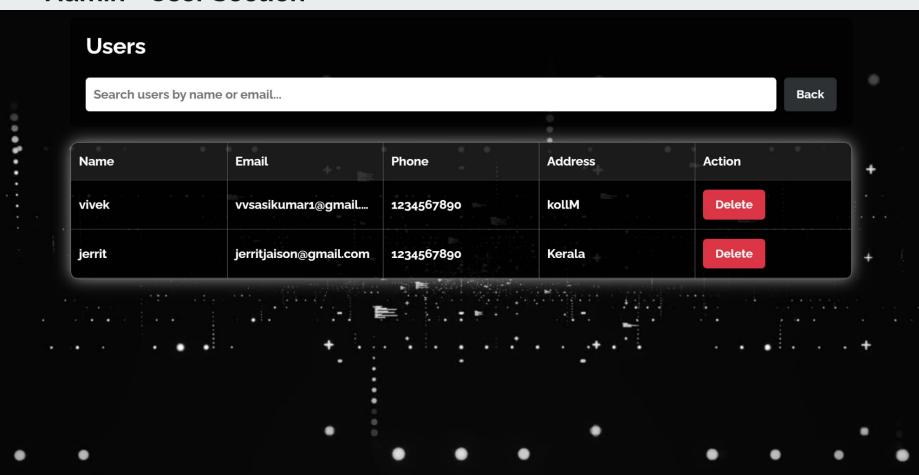
Booking Cancellation Page



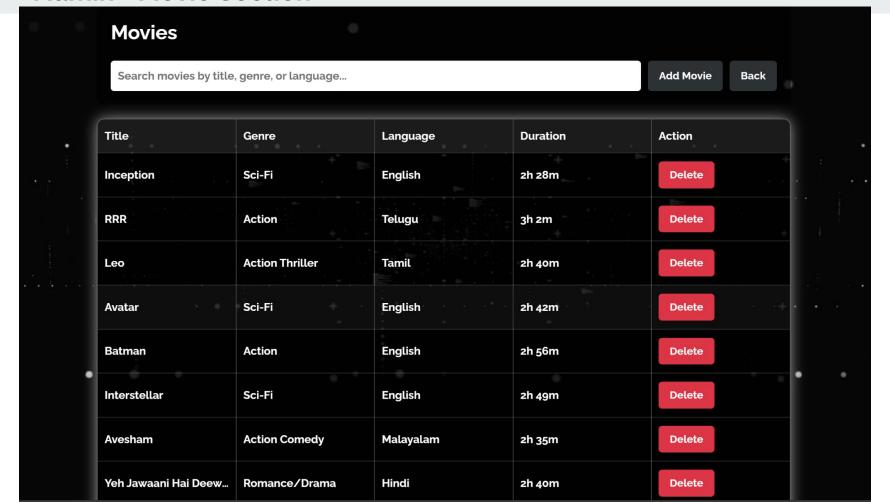
Admin Panel



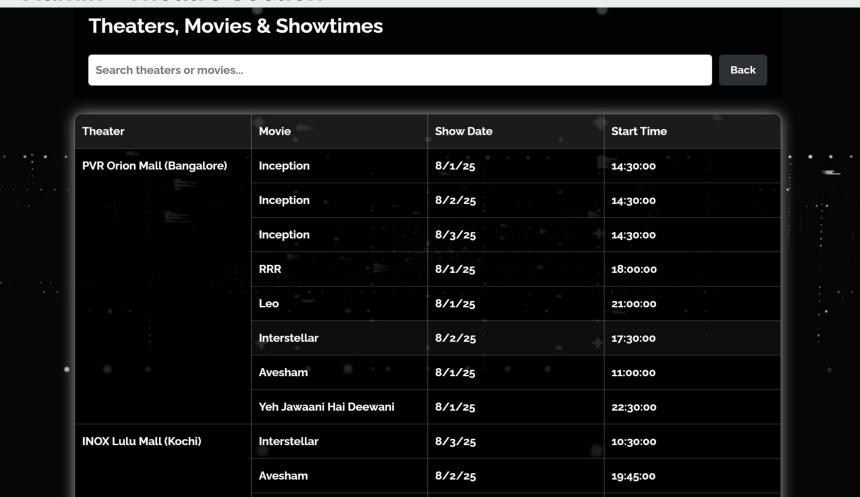
Admin - User Section



Admin - Movie Section



Admin - Theatre Section



Conclusion

- The Movie Reservation System project successfully streamlines the process of browsing movies, viewing theater availability, and managing user and admin operations.
- With a secure authentication mechanism, well-structured APIs, and an interactive Angular frontend, the system provides a seamless experience for both users and admins.
- This project demonstrates effective full-stack development using ASP.NET Core and Angular, and lays a strong foundation for future enhancements such as seat booking, payment integration, and user notifications.