**Theater Booking System Overview**

**Title**: MovieMania

**Target Audience**: Movie lovers, general public, fans, families

**Type**: B2C

**Timeline**: 2 weeks

**Total Members**: 1

**Requirements**:

- The theater admin can register using a sign-up page

- The admin can log in using username and password

- The system allows managing theater details and show setup

- The admin can add new shows/movies with all required information

- The admin can add new users/customers to the system

- The system supports searching and filtering shows based on different criteria

- A show details page displays complete information about a selected show

- Users can book tickets and the system tracks booking and show times

- Tickets can be cancelled and users can give feedback or ratings

- The admin can manage theater users and view their details

- The system calculates refunds for cancellations and stores payment details

**Data Model:**

RegistrationInfo: Class

- AdminId: Integer

- FirstName: String

- LastName: String

- MobileNo: Long/String

- EmailId: String

- Password: String

- ConfirmPassword: String

- UserName: String

- DOB: String

Login: Class

- UserName: String

- Password: String

Theater: Class

- ID: Integer

- Name: String

- Manager: String

- Capacity: Integer

- ScreenStructure: ScreenStructure

- Address: String

- PhoneNo: Long/String

- EmailId: String

- OpeningTime: Long

- ClosingTime: Long

- NoOperatingDays: Integer

ScreenStructure: Class

- ScreenId: String

- ScreenName: String

- SeatingCapacity: Integer

- ScreenType: String (e.g., "IMAX", "Standard")

- SeatLayout: List<Seat>

Show: Class

- ShowId: String

- MovieName: String

- Genre: String

- Duration: Integer (minutes)

- ReleaseYear: Integer

- Director: String

- Cast: List<String>

- Language: String

- Rating: String

- ShowTimes: List<ShowTime>

- AvailableSeats: Integer

ShowTime: Class

- ShowTimeId: String

- ScreenId: String

- DateTime: Long

- AvailableSeats: Integer

- Price: Double

User: Class

- UserId: String

- FirstName: String

- LastName: String

- Email: String

- MobileNumber: String

- Address: String

- DOB: String

- Bookings: List<BookingRecord>

- Feedbacks: List<Feedback>

BookingRecord: Class

- BookingId: String

- UserId: String

- ShowTimeId: String

- Seats: List<String>

- BookingDate: Long

- ShowDate: Long

- TotalAmount: Double

- PaymentId: String

- Status: String ("Confirmed", "Cancelled")

CancellationDetails: Class

- CancellationId: String

- BookingId: String

- CancellationDate: Long

- Feedback: Feedback

- RefundAmount: Double

Feedback: Class

- FeedbackId: String

- UserId: String

- ShowId: String

- Comments: String

- Rating: Integer (1-5)

Payment: Class

- PaymentId: String

- BookingId: String

- UserId: String

- Amount: Double

- PaymentDate: Long

- PaymentMethod: String (e.g., "Card", "UPI", "Cash")

- DiscountApplied: Double

- FinalAmount: Double

SearchFilter: Class

- MovieName: String

- Director: String

- Genre: String

- Language: String

- DateFrom: Long

- DateTo: Long

- TimeFrom: Long

- TimeTo: Long

- AvailableOnly: Boolean

Seat: Class

- SeatId: String

- ScreenId: String

- Row: String

- Number: String

- Type: String (e.g., "Standard", "Premium")

- Price: Double

- Status: String ("Available", "Booked", "Reserved")