Online Movie Ticket Booking System

1. Introduction

An online movie ticket booking system is a digital platform designed to facilitate the booking of movie tickets. These systems offer a range of features and functionalities to connect users with movie theaters, allowing them to select movies, choose showtimes, and reserve seats. Here's an overview of the key components typically found in an online movie ticket booking system:

- **Movie Listings**: The system allows theaters to list movies available for booking. Each listing includes details such as movie title, genre, showtimes, and trailers.
- **User Registration**: Users can create accounts on the platform to save preferences, favorite movies, and receive personalized recommendations.
- **Booking System**: Users can search for movies based on their preferences like genre, location, and time. The system allows for the selection of seats and payment processing for ticket reservations.
- **Notifications**: Users receive alerts for booking confirmations, reminders for upcoming showtimes, and special promotions.
- **Reviews and Ratings**: Users can provide feedback and ratings for movies they have watched, enhancing the decision-making process for other users.
- **Admin Dashboard**: Backend tools for administrators to manage movie listings, users, payments, and overall system performance.

2. Functional Requirements

User Management:

- **User Registration**: Allow users to register with personal information.
- **User Authentication**: Implement secure login procedures.
- **User Profile**: Users can view and update their profiles.

Movie Listings:

- **Movie Upload**: Theaters can add new movie listings.
- **Movie Details**: Include fields for movie description, showtimes, and trailers.
- **Movie Search**: Users can search for movies using filters.

Booking and Payments:

- **Booking System**: Allow users to book movie tickets and select seats.
- **Payment Gateway**: Integrate a secure payment system for ticket transactions.

Feedback System:

- Users can provide feedback and ratings for movies they have watched.

Notification System:

- **Email Notifications**: Send notifications for booking confirmations and reminders.

- **Real-time Alerts**: Notify users about new movie releases or special promotions.

Admin Panel:

- **Dashboard**: Offer admin tools for managing users, movies, and transactions.
- **Reporting**: Generate reports on user activity and movie performance.

3. Non-Functional Requirements

- **Response Time**: Ensure quick loading times for movie listings and search results.
- **Data Encryption**: Secure user data and transactions with encryption protocols.
- **Access Control**: Implement role-based access control for users and admins.
- **User Interface**: Design an intuitive and visually appealing interface.

Feature: Movie Ticket Booking

As a user
I want to be able to book movie tickets
So that I can watch my favorite movies at a theater

Scenario: Successful ticket booking

Given I am on the movie booking page
When I select the movie I want to watch
And I choose the date and time for the show
And I select the number of tickets
And I choose my preferred seats
And I enter my payment details
And I confirm the booking
Then I should see a confirmation page with my booking details
And I should receive an email with the booking confirmation

Scenario: Booking with sold-out show

Given I am on the movie booking page
When I select the movie I want to watch
And I choose the date and time for the show
And I select the number of tickets
And I find that the selected show is sold out
Then I should see a message indicating that the show is sold out
And I should be given the option to choose a different time or date for the same movie