

## TechMahindra JFS Track

<b>Training Track</b>	: Java Full Stack
<b>Module</b>	: Capstone Project
<b>Project Title</b>	: Online Movie Ticket Booking

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### **Problem Definition:**

The "Online Movie Ticket Booking" system aims to automate the movie ticket booking process, providing a convenient and efficient alternative to manual bookings. It offers real-time movie listings, showtimes, and seat selection for customers.

### **Requirements:**

The Online Movie Ticket Booking should meet the following requirements:

1. Display cities with selected theatres.
2. Manage multiple halls in each theatre, with one movie show per hall at a time.
3. Organize multiple shows for each movie.
4. Allow customers to search for movies based on title, language, genre, theatre, and city.
5. Provide theatre and showtime details for selected movies.
6. Enable customers to select a show, choose seats, and book tickets.
7. Show the seating arrangement, indicating available and booked seats.
8. Offer multiple payment options: credit/debit cards, cash, or UPI.

### **User Roles:**

1. **Administrator:** Responsible for managing movies, showtimes, and customer interactions.
2. **Customer:** Registered users who can book, view, and cancel tickets online.
3. **Guest:** Unregistered users who can search and view the movie list.

### **Modules and Functionalities:**

#### **1. Administrator:**

- Login: Secure access to the administrator's account.
- Movie Management:
  - AddMovie: Add new movie details or release information.
  - UpdateMovie: Modify movie details for specific theatres.
  - DeleteMovie: Remove movies from the system.
- Profile Management:
  - Registration: Register the administrator.
  - Update: Update personal details.
- Report Management:

- Movie Details: Retrieve the list of currently running movies.
- Customer Details: Obtain a list of registered customers.

## **2. Customer:**

- Login: Secure access to the customer's account.
- Profile Module:
  - Registration: Register as a customer for ticket booking.
  - Update: Modify personal details.
  - View: View personal details.
- Booking Module:
  - Book Tickets: Allow customers to book movie tickets online.
  - View Movie List: Display the list of available movies.
  - Search Movie: Help customers search for specific movies.
  - Cancel Tickets: Enable customers to cancel booked tickets.
- Payment Module:
  - Credit/Debit Card: Facilitate payment through credit/debit cards.
  - Cash: Allow payment at the theatre to the officer.
  - UPI: Offer UPI payment option.

## **3. Guest:**

- Search for a Movie: Enable unregistered users to search and view the movie list.