



VIT-AP
UNIVERSITY

SOFTWARE REQUIREMENT SPECIFICATION DOCUMENT

MOVIE TICKET RESERVATION SYSTEM

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1)Introduction

1.1)Purpose

The purpose of this document is to provide a detailed overview of the functional and non-functional requirements for the development of a Movie Ticket Booking System.

1.2)Intended customers/users

1. Families
2. cinema and theatre owners
3. Tourists and visitors
4. Students
5. Event Organizers
6. Movie Lovers

1.3)Product Scope

The system will allow users to browse available movies, view show times, select seats, make bookings, and manage their booking history. Administrators will have access to an admin panel for managing movies, theatres, and bookings.

1.4)Outline of the document

The Movie Ticket Reservation System is a web-based application designed to streamline the process of booking movie tickets. The system is structured around key user roles, including customers and administrators, each with specific permissions. Customers can browse available movies, view show times, select seats, and make payments securely.

2. Overall Description

2.1 Product Perspective

The movie ticket reservation system is a web-based and/or mobile application designed to facilitate the booking of movie tickets. It acts as an intermediary between theaters and customers, allowing users to view showtimes, select seats, and make payments seamlessly. The system can be integrated with theater management systems and payment gateways to ensure real-time availability and secure transactions.

2.2 Product Functions

The main functions of the system include:

- **User Registration and Authentication:** Users can create accounts, log in, and manage profiles.
- **Movie Listings:** Display current and upcoming movies with details like genre, duration, and ratings.
- **Showtime Selection:** Users can view available showtimes for selected movies.
- **Seat Selection:** Interactive seating charts that allow users to choose their preferred seats.
- **Payment Processing:** Integration with secure payment gateways for processing credit/debit card transactions.
- **Booking Confirmation:** Users receive booking confirmations via email or SMS, including QR codes for easy entry.
- **Cancellation and Refunds:** Options for users to cancel tickets and request refunds according to theater policies.
- **Admin Dashboard:** For theater staff to manage showtimes, seat availability, and sales reports.

2.3 User Classes

- **Customers:** General users looking to book movie tickets.
- **Theater Staff:** Employees who manage movie listings, schedules, and customer service.
- **Administrators:** System administrators who oversee user accounts, manage the database, and ensure system security.

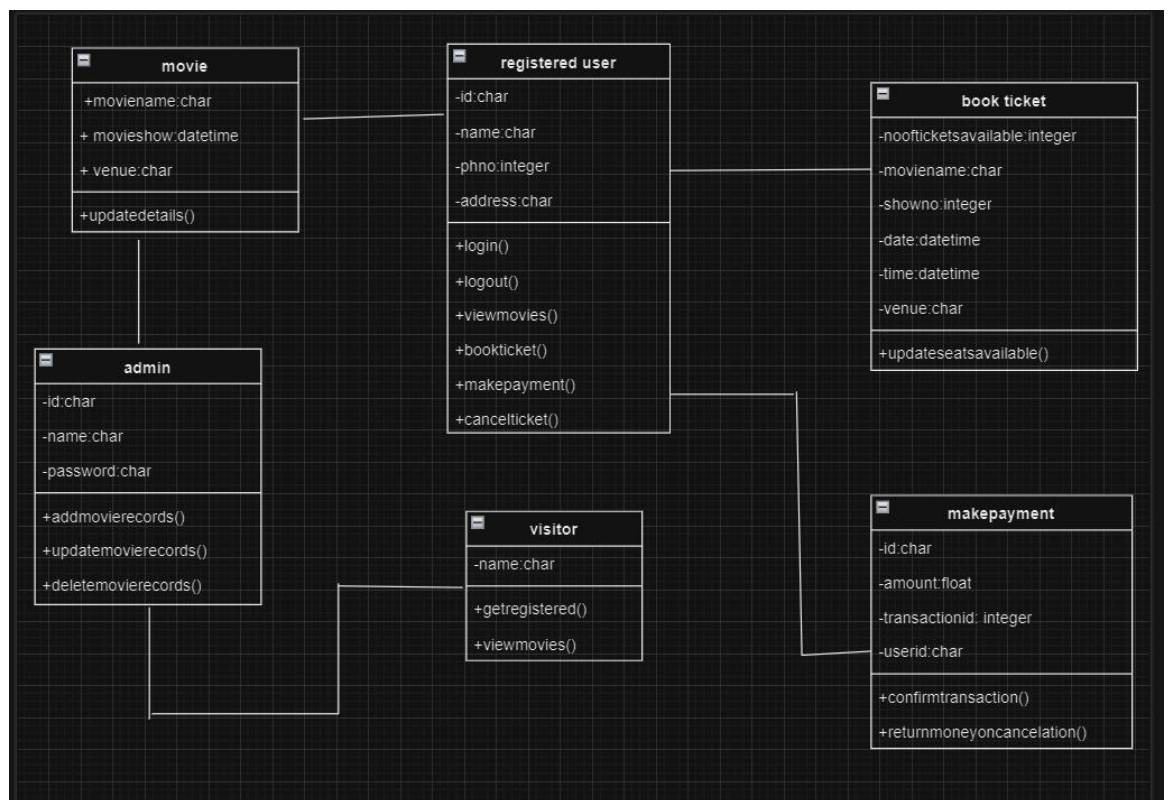
2.4 Design and Implementation Constraints

- **Scalability:** The system should be able to handle peak loads during popular movie releases.
- **Security:** Implement strong security measures for user data and payment transactions, including encryption and compliance with standards like PCI DSS.
- **Compatibility:** The application must work across various devices and browsers, ensuring a responsive design.
- **User Experience:** The interface should be intuitive and user-friendly, minimizing the number of steps to complete a booking.
- **Integration:** The system should be able to integrate with existing theater management software and third-party payment processors.

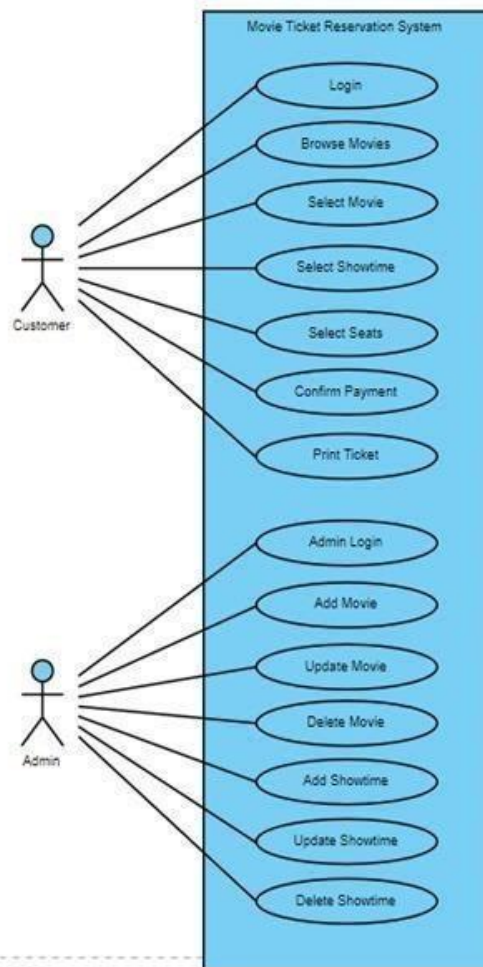
- **Accessibility:** Ensure the system is accessible to users with disabilities, following guidelines like WCAG.
- **Localization:** Support for multiple languages and regional payment methods as needed.

UML DIAGRAMS

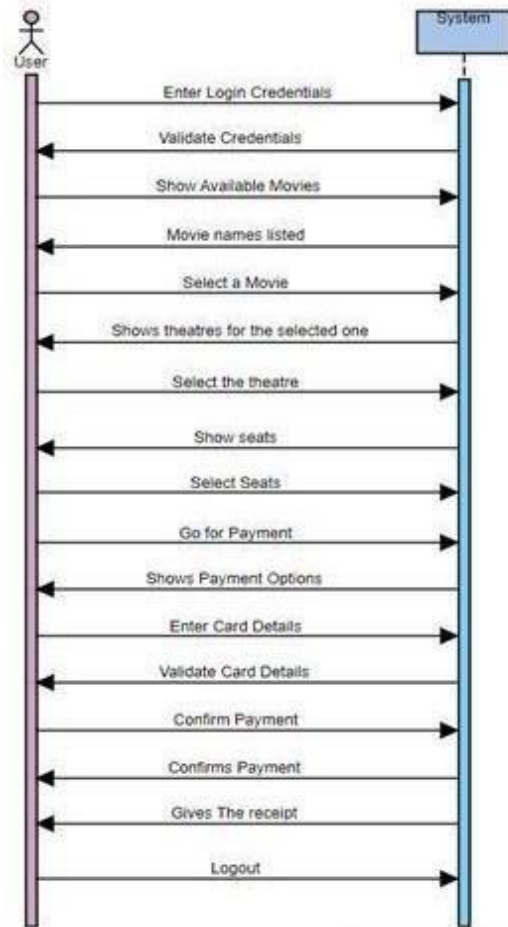
1. CLASS DIAGRAM:



2. USE CASE DIAGRAM:



3. SEQUENCE DIAGRAM:



4. ACTIVITY DIAGRAM:

