"In the name of the One whose knowledge surpasses all knowing

and whose compassion embraces all creation."

Vision Document

Project Name: Cinema Ticketing System

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1. Problem Statement

The Cinema Ticketing System is designed to address the challenges of traditional manual ticket purchasing. The current process suffers from long waiting queues, booking errors, and lack of real-time seat availability information. This affects both moviegoers and cinema staff, leading to customer dissatisfaction and operational inefficiency.

The proposed solution is an online platform that allows users to browse movies, select seats visually, and pay securely, while enabling administrators to manage showtimes dynamically.

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2. Functional Requirements (What the system should do)

- Browse Movies: Users can view currently showing movies with details.

- Select Seats: Users can see the hall layout and choose available seats.

- Purchase Tickets: Users can buy tickets through secure online payment.

- Cancel Tickets: Users can cancel bookings within allowed timeframe.

- Manage Showtimes: Admins can create, update, and delete movie schedules.

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3. Non-Functional Requirements (Quality attributes)

- Usability: Intuitive and mobile-friendly interface.

- Performance: Support up to 500 concurrent users.

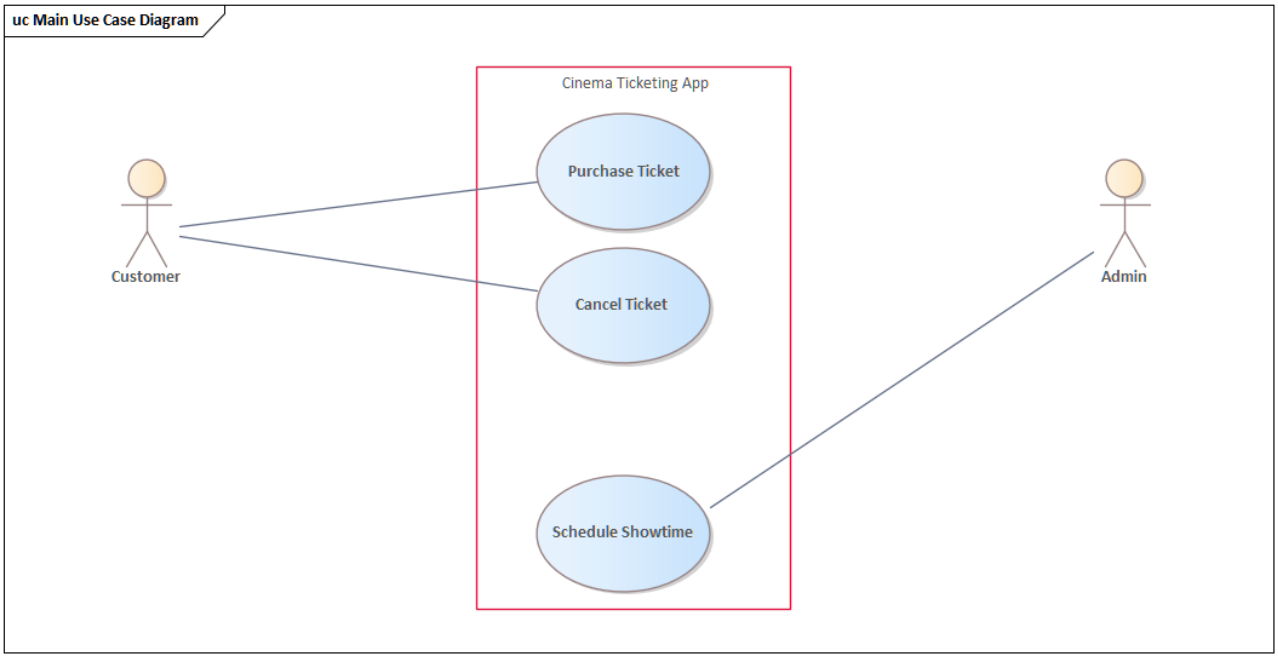
- Availability: 24/7 uptime with 99.9% reliability.

- Security: Encrypted user data and payment information.

- Language: English interface for international compatibility.

4. Use Case Model (System Context Diagram)

The system supports the following use cases:



Key Actors:

- Customer: Purchases and cancels tickets

- Admin: Manages movie schedules and showtimes

Key Use Cases:

- Purchase Ticket

- Cancel Ticket

- Schedule Showtime