ASSIGNMENT - 1

Title : Movie Ticket Booking System

Overview, Scope, and Objectives of the Project

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TITLE : MOVIE TICKET BOOKING SYSTEM

Software Requirement Specification

Purpose of the Project:
The purpose of the Movie Ticket Booking System is to provide an efficient and user-friendly platform for customers to easily book and manage movie tickets. The system aims to streamline the ticket booking process, enhance user experience, and provide accurate information about available movies and showtimes.

Scope of the Project:
The scope includes the development of a web-based application accessible to users for browsing movies, selecting showtimes, and purchasing tickets. Additionally, it involves an admin interface for managing movie listings, theater details, and monitoring bookings.

Definitions, Acronyms, and Abbreviations:

Admin: Refers to the system administrator with control over movie listings and theater information.
User: Represents individuals utilising the system to browse movies, select showtimes, and book tickets.

References:
Relevant industry standards and guidelines.
Any previous systems or projects that influenced the design.

Overall Description:
The Movie Ticket Booking System will be a dynamic web application developed using modern technologies. It will offer a user-friendly interface for customers to browse movies, view showtimes, and securely complete ticket transactions. The admin interface will enable administrators to manage movie listings, update showtimes, and monitor ticket sales.

System Features:

User Registration and Authentication
Movie Browsing and Searching
Showtime Selection and Seat Reservation
Secure Online Payment
Booking Confirmation and E-Ticket Generation
Admin Dashboard for Movie and Showtime Management

Real-time Seat Availability Updates

External Interface Requirements:

User Interface:

Intuitive web interface for customers.
Admin dashboard for system administrators.

Hardware Interface:
Compatible with standard web browsers on desktop and mobile devices.
Integration with secure payment gateways.

Software Interface:

Integration with database systems for storing movie and booking information.
Interaction with external APIs for real-time updates.

Other Non-functional Requirements:

Performance Requirements:

Quick response times for user interactions.
Scalability to handle concurrent user requests during peak times.

Safety Requirements:
Secure user data storage and transmission.
Regular data backups to prevent loss.

Security Requirements:
Secure login mechanisms for user and admin access.
Encryption of sensitive data such as payment information.
Software Quality Attributes:

Intuitive and user-friendly design.
Robust error handling and reporting.
Regular system maintenance and updates for optimal performance.