UE21CS351A: Database Management System

MINI PROJECT USER REQUIREMENT SPECIFICATION STADIUM MANAGEMENT SYSTEM

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Introduction:

1.1 Purpose of the project:

The Stadium Management System will serve as a comprehensive solution for efficiently managing various aspects of a stadium or sports facility. Its primary purpose is to enhance the overall ticketing experience and streamline the various processes associated with managing a stadium.

By integrating all the functionalities that we plan on putting up, our Stadium Management System aims to create a more efficient, secure, and enjoyable experience for spectators, organisers, and Event managers. It's a vital tool for modern sports and entertainment venues looking to optimise their operations and provide a seamless experience for all stakeholders.

1.2 Scope of the project:

The scope of a Stadium Management System project encompasses the comprehensive optimization of sports and entertainment venue operations. This multifaceted system seamlessly integrates ticketing, event scheduling, and parking management. By efficiently managing these aspects, the project aims to enhance overall stadium functionality, ensuring seamless event planning and an enriched fan experience. The system's scope extends to sponsorship and marketing coordination, enabling revenue generation. With a focus on technology-driven solutions, this project addresses the diverse needs of modern stadiums, promoting operational efficiency and elevating the overall quality of events and services provided.

2. Project Description

Project Overview:

The Stadium Management System is a comprehensive software solution designed to streamline and enhance the operations of a stadium or sports venue. It offers a range of functionalities to efficiently manage ticket sales, event scheduling, parking, and vendor and staff management. The system is intended to improve the overall experience of both event organizers and attendees.

Key Features:

1. Ticket Sales Management:

- Ticket booking and purchase.
- Seat selection and reservation.

2. Event Scheduling:

- Calendar-based event scheduling and management.
- Easy event creation, modification, and cancellation.
- Integration with the ticketing system to automatically update event availability.

3. Parking Management:

- Automated parking space allocation.
- Real-time parking availability updates on the stadium's application.
- Integration with ticketing system for reserved parking spots.
- Payment processing for parking fees.

4. Vendor Management:

- Vendor registration and onboarding process.
- Vendor performance tracking and ratings.

5.Staff Management:

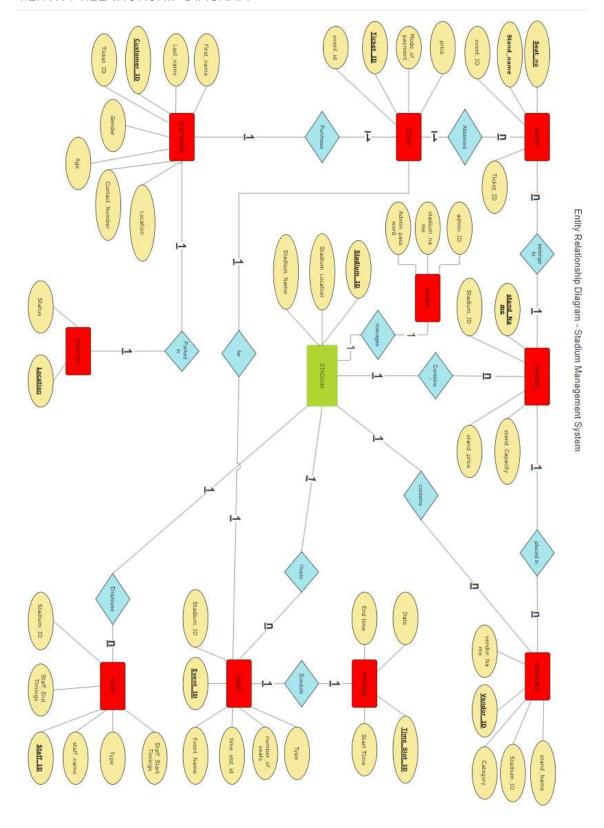
• Employee scheduling and shift management.

6. Security and Access Control:

Role-based access control for administrators, vendors, and staff.

3. Function Requirements

- **1.HTML:**HTML is used to structure and format web pages. It provides the foundation for displaying event information, ticket sales, and other content on the system's user interface, ensuring cross-platform compatibility and accessibility for stadium attendees and staff.
- **2.CSS:**To control the visual presentation and layout of web pages. CSS ensures that the system's user interface, including fonts, colours, spacing, and responsiveness, is visually appealing and consistent across various devices and screen sizes, enhancing the overall user experience.
- **3.FLASK:**We'll use Flask for backend to run MySQL and add functionalities .Flask is characterised by its simplicity, which means it offers only what's essential for building web applications, making it approachable and easy to learn. Its minimalist design keeps the core framework lightweight, allowing developers to add only the components they need, reducing unnecessary complexity.
- **4.MYSQL**:For the database we'll use MySQl ,because it is easy to use ,secure,has high efficiency and it's open source.



5. Relational schema

