💳 Project Proposal: Ticket Reservation System

📌 Overview of the Project

The Ticket Reservation System is a web-based platform that facilitates the seamless booking of tickets for various events including sports matches and entertainment shows. The system supports multiple user roles — **Clients**, **Vendors**, and **Administrators** — each with distinct responsibilities. Clients can browse events, book or cancel tickets, and manage their addresses. Vendors are empowered to create and manage events, while administrators are responsible for overseeing the approval and moderation of events and vendors.

This system aims to streamline the process of event ticketing, minimize manual errors, and provide a robust and secure platform for users to interact with events and make payments.

🎯 Objectives

- ✅ Provide an intuitive and secure registration and login process for users.

- ✅ Allow clients to book, cancel, and manage event tickets.

- ✅ Enable vendors to add, update, and monitor their event listings.

- ✅ Allow admins to verify, approve, or reject vendors and events for quality control.

- ✅ Manage and store user-related data such as addresses and payment tokens.

- ✅ Track bookings, sales, and event status in real-time.

- ✅ Ensure scalability to support a large number of concurrent users and events.

🔍 Scope of the Project

👨‍💼 User Management:

- Role-based access for Clients, Vendors, and Admins.

- User registration, login, and profile editing.

🎟️ Ticket Booking:

- Clients can book and cancel tickets for events.

- Each ticket is linked to a specific client and event.

- Address management for shipping purposes.

📅 Event Management:

- Vendors can create, edit, and delete events.

- Event types include: Sport Events and Entertainment Events.

- Each event includes details such as name, date, category, and seat availability.

🧑‍💼 Admin Functions:

- Confirm or reject events submitted by vendors.

- Approve or remove vendors from the platform.

- Manage bookings and system integrity.

📦 Address & Shipping:

- Clients can add or modify shipping addresses.

- Tickets are associated with a specific address for shipping/delivery info.

📊 Reporting:

- Vendors can view sales and booking statistics for their events.

- Admins have system-wide visibility for control and oversight.