**Ticket Booking System - Software Requirements Specification**

**1. Introduction**

The Ticket Booking System is an online platform that allows users to book tickets for

various events such as movies, concerts, sports events, etc. The system provides a

user-friendly interface for browsing available events, selecting seats, and making

reservations. This document outlines the functional and non-functional requirements

for the Ticket Booking System.

**2. Scope**

The Ticket Booking System will provide the following features:

User registration and login.

Event browsing and searching.

Seat selection and reservation.

Payment processing.

Ticket confirmation and generation.

User profile management.

Admin panel for event management and user administration.

**3. Functional Requirements**

**3.1 User Registration and Login**

Users can register with the system by providing their basic information (name, email,

password).

Users can log in to the system using their registered email and password.

**3.2 Event Browsing and Searching**

Users can browse and search for events based on categories, dates, locations, etc.

Users can view event details such as title, description, date, time, venue, and available

seats.

**3.3 Seat Selection and Reservation**

Users can select seats from the available seating layout of the event venue.

Users can choose the number of seats to reserve.

The system should prevent double booking of seats.

**3.4 Payment Processing**

Users can make payments for their ticket reservations using various payment methods

(credit card, PayPal, etc.).

The system should securely handle payment transactions and ensure data privacy.

**3.5 Ticket Confirmation and Generation**

After successful payment, users should receive a confirmation email with the ticket

details.

Users can view and print their tickets from their user profile.

**3.6 User Profile Management**

Users can update their profile information (name, email, password, etc.).

Users can view their booking history and ticket details.

**3.7 Admin Panel**

Admin users have access to an admin panel for managing events and users.

Admin can add, edit, and delete events from the system.

Admin can view and manage user accounts (block, delete, etc.).

Admin can generate reports on ticket sales, revenue, etc

A **Ticket Booking System** involves various entities that interact with each

other. Here are the key entities typically involved:

**User:** Represents individuals who use the Ticket Booking System. Users can have

roles such as guest, registered user, or admin. They have attributes like User ID,

Name, Email, and Password.

**Event:** Represents a specific event for which tickets can be booked. Events have

attributes such as Event ID, Title, Description, Date, Time, Venue, and Ticket

Availability.

**Ticket:** Represents a ticket for a specific event. Tickets have attributes like Ticket ID,

Event ID, Seat Number, Price, and Status (booked, canceled, etc.).

**Booking:** Represents a user's booking of one or more tickets for an event. Bookings

have attributes like Booking ID, User ID, Event ID, Booking Date, Total Price, and

Status (confirmed, pending, canceled).

**Payment:** Represents a payment made by a user for a booking. Payments have

attributes like Payment ID, Booking ID, Payment Method, Transaction ID, and

Amount.

**Venue:** Represents the location or venue where events take place. Venues have

attributes like Venue ID, Name, Address, Capacity, and Facilities.

User

User\_ID (Primary Key)

Name

Email

Password

Role

Event

Event\_ID (Primary Key)

Title

Description

Date

Time

Venue\_ID (Foreign Key referencing Venue table)

Ticket\_Availability

Ticket

Ticket\_ID (Primary Key)

Event\_ID (Foreign Key referencing Event table)

Seat\_Number

Price

Status

Booking

Booking\_ID (Primary Key)

User\_ID (Foreign Key referencing User table)

Event\_ID (Foreign Key referencing Event table)

Booking\_Date

Total\_Price

Status

Payment

Payment\_ID (Primary Key)

Booking\_ID (Foreign Key referencing Booking table)

Payment\_Method

Transaction\_ID

Amount

Venue

Venue\_ID (Primary Key)

Name

Address

Capacity

Facilities