

# **HLD & LLD for an application IPL TICKET BOOKING SYSTEM with 5 features**

## **ASSIGNMENT – 1**

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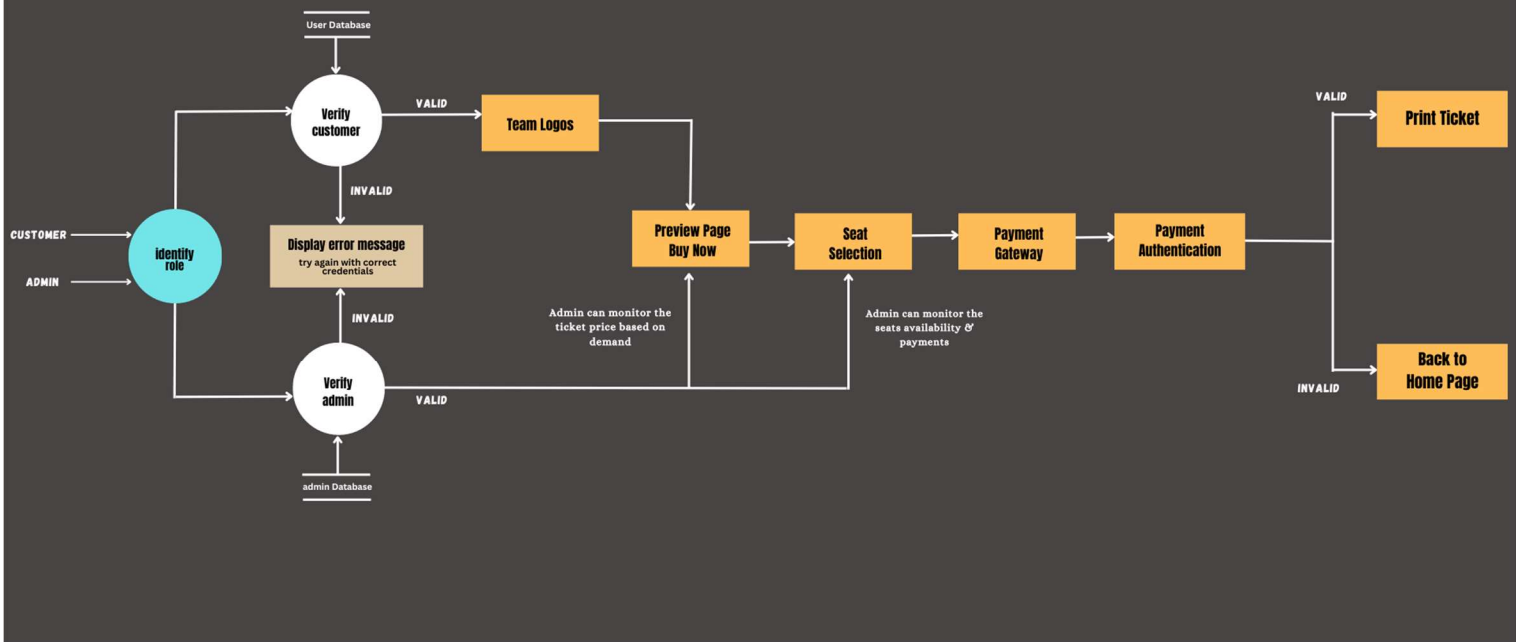
ALCHEMY TEAM

# IPL Ticket Booking System - Comprehensive High-Level Design Report

## HLD Diagram of IPL Booking System:

### IPL TICKET BOOKING SYSTEM

#### HIGH LEVEL DIAGRAM

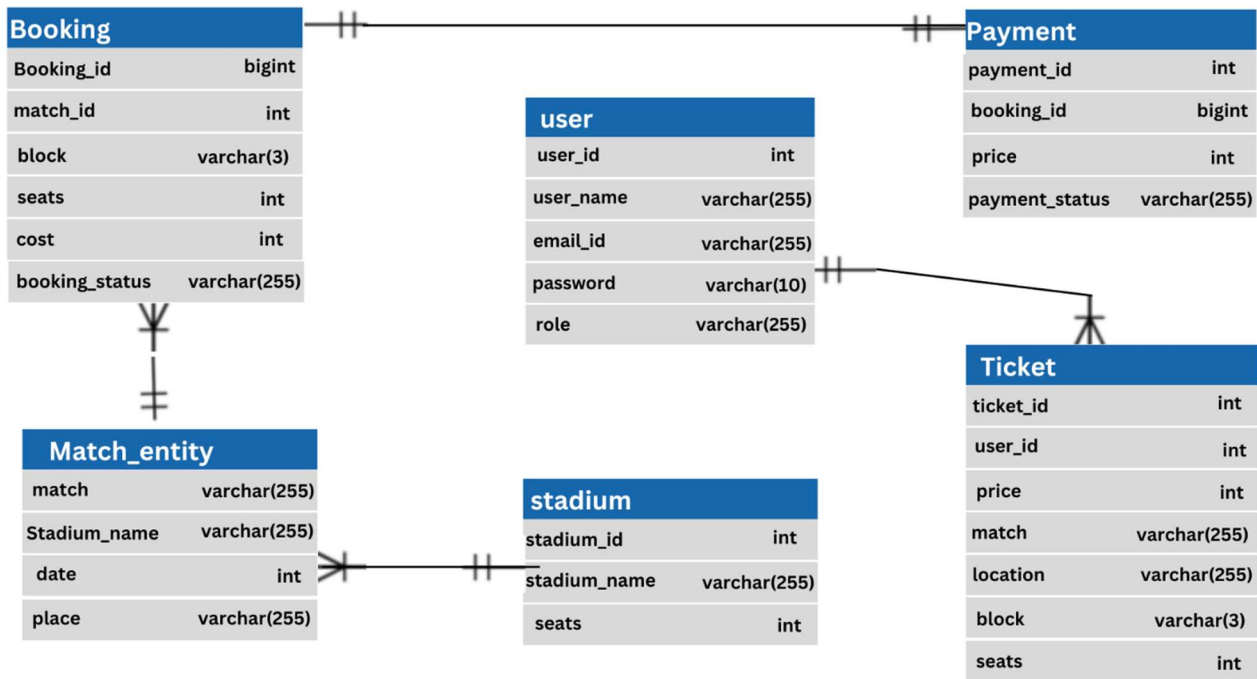


The above Diagram was designed in Canva:

the below is for reference:

[https://www.canva.com/design/DAF9zrqbpCg/XFi9U9rh9Z1CW41vAccl9A/view?utm\\_content=DAF9zrqbpCg&utm\\_campaign=designshare&utm\\_medium=link&utm\\_source=editor](https://www.canva.com/design/DAF9zrqbpCg/XFi9U9rh9Z1CW41vAccl9A/view?utm_content=DAF9zrqbpCg&utm_campaign=designshare&utm_medium=link&utm_source=editor)

## LLD Diagram of IPL Booking System:



The above Diagram was designed in Canva:  
the below is for reference:

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## Trivial For HLD of IPL Ticket Booking System:

### User Module:

The user module is the gateway for individuals to access the ticket booking system. It encompasses:

- 1. Login/Register:** Users can create accounts or log in with existing credentials. Password recovery functionality ensures user convenience.

**User Profile:** Users can maintain and update their profiles, including personal information and preferences.

### 2. Match and Stadium Selection:

This module allows users to choose from a diverse list of upcoming matches and stadiums. Key features include:

**Match Details:** Users can access information about match date, time, and participating teams, aiding them in making informed decisions.

**Stadium Information:** Detailed stadium information is provided, including seat categories and available capacity.

### 3. Seat Booking:

The seat booking module facilitates users in selecting and booking seats. Key aspects include:

**Seat Selection:** Users can choose up to four seats in different categories, with the system enforcing a limit to ensure fair distribution.

**Real-time Availability:** The system provides real-time updates on seat availability, preventing overbooking.

### 4. Payment Gateway Integration:

Seamless integration with a secure payment gateway ensures:

**Payment Options:** Users can make payments using various methods, with a primary focus on card payments for convenience and security.

**Transaction Security:** The system employs robust security measures to safeguard financial transactions and user data.

## **5. Ticket Generation:**

Upon successful payment, a digital ticket is generated, offering:

**Comprehensive Details:** The ticket includes seat numbers, match date and time, participating teams, and the total amount paid.

**Download and Print Option:** Users can download and print the ticket for their records.

## **Admin Module:**

### **1 Match Management:**

Admins have control over match-related activities, including:

**Addition and Modification:** Admins can add new matches with details or modify existing match details such as date, time, and participating teams.

### **2 Booking Status:**

Admins can monitor the booking status in real-time, categorizing bookings as active, pending, or blocked. This information aids in managing match attendance and seat allocation.

### **3 Seat Category and Stadium Management:**

Admins can dynamically manage seat categories and stadium details:

**Pricing:** Adjust prices based on demand, availability, or other factors.

**Capacity Management:** Add or remove stadiums and update seat capacities.

### **4 Booking Count List:**

Admins can access a detailed booking count list, offering insights into user preferences and demand for specific matches. This data is valuable for strategic decision-making.

### **5 Price Adjustment:**

Admins can dynamically adjust seat category and stadium prices based on various factors such as demand trends, special events, or team popularity.

## **6 User Management:**

Admins have the capability to manage user accounts, review booking history, and address any issues related to user accounts. This module enhances user satisfaction and addresses concerns promptly.

## **7 Reporting and Analytics:**

The system generates comprehensive reports on booking trends, revenue, and other relevant analytics. These reports empower admins to make informed decisions and plan for future events.

## **8 Security Measures:**

The system implements robust security measures to protect user data and financial transactions. Regular security audits ensure the system's resilience against potential threats, instilling confidence in both users and administrators.

## **9 Notifications:**

Users and admins receive timely notifications for successful bookings, changes in match details, or any significant updates within the system. This ensures effective communication and keeps stakeholders informed.

**\*\*\*\*\* THE END \*\*\*\*\***