

## **Team Members -**

1. Prince Chovatiya (Id: 202301067)
2. Krish Makwana (Id:202301103 )
3. Kavya Chauhan (Id:202301116)
4. Abhishek Kothari (Id:202301128)
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## **Objective:**

Design and implement a database for managing an IPL (Indian Premier League) tournament. The system should handle team management, player registration, auction processes, match scheduling, player performance tracking, and reports for various stakeholders.

## **Application Users**

- Viewers/Fans
- Team Owners & Managers
- Players
- Match Officials (Umpires, Referees)
- Tournament Administrators

## **Use Cases**

### **1) Viewers/Fans**

Users can visit the IPL Manager site and explore details.

View Team & Player Profiles – Fans can browse team rosters, player stats and team performances.

View Match Schedule & Results – Upcoming match schedules, venues, and past match results.

View Team Standings – Points table, net run rate (NRR), and rankings.

View Player Performance Rankings – Top scorers, best bowlers, and MVP rankings.

### **2) Team Owners & Managers**

Participate in IPL Auction

Manage Team Squad (Add, Remove, Trade Players)

Manage Player Contracts & Salaries

View Financial Reports & Earnings

View Team & Player Performance Statistics

Track Match Schedules & Fixtures

#### **Team Registration**

Each team must register before the IPL season. A team consists of:

- Team Name
- Home Ground
- Coach
- Owners

- Players (Domestic & International)

### **3) Players**

Players are either selected via the auction or retained from previous seasons.

Register as an IPL Player (Indian & Overseas)

Update Personal & Performance Details

View Match Schedule & Performance Stats

Participate in the Auction

Sign Contracts & Manage Salaries

Track Performance Rankings

#### **Player Registration**

Players must register before the auction, providing:

- Full Name
- Nationality
- Role (Batsman, Bowler, All-rounder, Wicketkeeper)
- Base Price
- Previous IPL Teams

### **4) Match Officials (Umpires)**

They ensure fair play and manage match rules.

**Register as an IPL Match Official**

Assign Matches to Officiate

Record Match Decisions (LBW, Wickets, No-balls, etc.)

**Officials must register, providing:**

- Full Name
- Experience Level
- Assigned Matches
- Accuracy

## **5) Tournament Administrators**

Admins oversee IPL operations and maintain tournament integrity.

Schedule & Organize Matches

Assign Match Officials

Generate & Maintain IPL Points Table

Record & Update Match Statistics

The IPL Manager system schedules matches automatically and records results.

Generate Fixture List – Matches are scheduled based on a round-robin format.

Assign Venues – Matches are played at various stadiums across India.

Track Match Scores in Real-Time – Live scoring and match summaries.

Update Match Results & Points Table – Standings are updated dynamically.

**The IPL Management system includes**

- Scoring & Player Performance Tracking
- Each match records detailed player performance, including:
  - Total Runs Scored
  - Man of the Match Awards

## **Reports & Queries**

### **For General Users (Fans & Viewers)**

- View Match Schedule & Results
- View Player Rankings & MVP Standings
- View Team Points Table & Standings
- View Player Statistics (Batting & Bowling)
- View IPL Auction Results & Player Transfers
- Compare Player Performance Over Multiple Seasons

### **For Team Owners & Managers**

- View Team Financial Reports (Player Salaries, Earnings)
- View Player Performance Summaries
- View Total Runs, Wickets, Strike Rates of Team Players
- View Total Matches Won, Lost & Net Run Rate
- Identify Most Valuable Players (MVPs)

### **For Players**

- View Personal Performance Reports
- Compare Career Statistics Over Seasons
- Track Batting & Bowling Averages
- Identify Improvement Areas (Runs per Match, Wickets per Over)

- View Performance-Based Earnings
- Track Most Sixes, Fours, and Strike Rates

### **For Match official**

- Generate Umpire Performance Reports

### **For IPL Administrators**

- View Financial Statements of Each Team
- Identify Top-Performing Teams & Players
- View Umpire Performance Reports
- Manage Points Table & Tournament Rankings

## **Conclusion**

This IPL Tournament Management System efficiently manages team registration, player auctions, match scheduling, score tracking, and performance analysis. It serves teams, players, fans, officials, and administrators with detailed reporting.