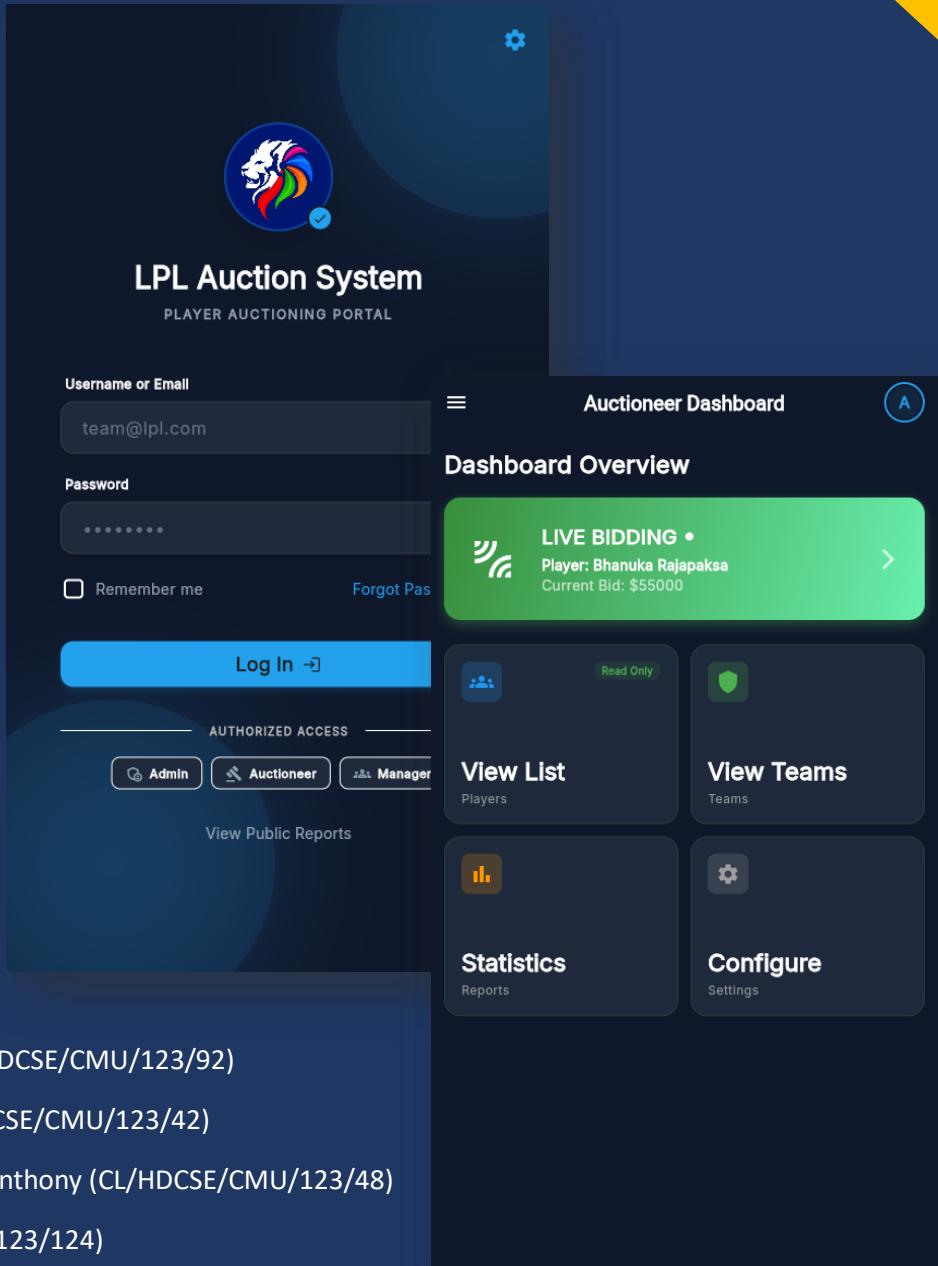


# AUCTIONING SYSTEM FOR LPL



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## User Manual

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## 1. Introduction

This user manual provides step-by-step guidance on how to use the **Cricket Players Auctioning System for the Lanka Premier League (LPL)**. The system is designed to automate the player auction process by enabling secure authentication, real-time bidding, budget management, and auction control through a mobile-based application supported by a backend server.

This manual is intended for:

- System Administrators
- Auctioneers
- Franchise Team Managers

The image displays three screenshots of a mobile application interface, likely for a cricket auction system. The first two screenshots are side-by-side at the top, and the third is on the right.

- Admin Dashboard (Left):** Shows a "Dashboard Overview" with four cards: "Total Players" (80), "Active Teams" (5), "Total Purse" (\$5.0M), and "Bhanuka Rajapaksa" with a current bid of \$55000. Below this is a "Management" section with "User Management", "Player Management", "Team Management", and "Reports". Navigation icons for "Home", "Players", "Team", and a plus sign are at the bottom.
- Auctioneer Dashboard (Middle):** Shows a "Dashboard Overview" with a green "LIVE BIDDING" box for "Player: Bhanuka Rajapaksa" with a current bid of \$55000. It also has four cards: "View List" (Players), "View Teams" (Teams), "Statistics" (Reports), and "Configure" (Settings).
- Colombo Strikers Dashboard (Right):** Shows a "Dashboard Overview" with a green "LIVE BIDDING" box for "Player: Bhanuka Rajapaksa" with a current bid of \$55000. It has four cards: "View List" (Players), "View Teams" (Opponents), "Statistics" (Reports), and "Details" (My Team). A team logo for "Colombo Strikers" is at the top.

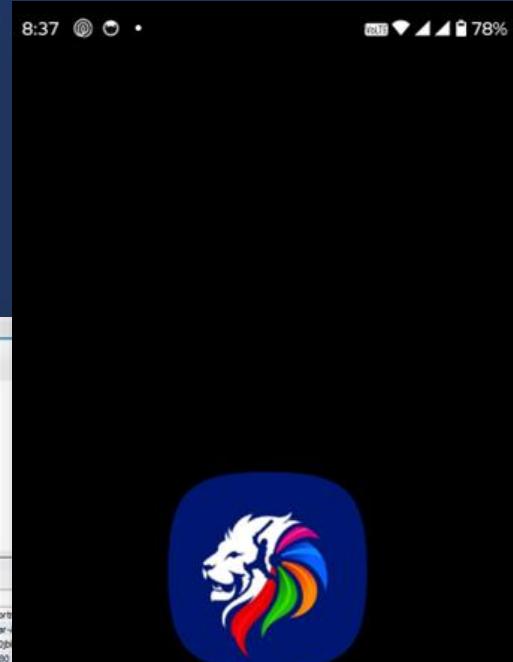
## 2. System Requirements

### Hardware Requirements

- Android mobile device or Android emulator
- Minimum 16GB RAM recommended for development/testing machines

### Software Requirements

- Android OS (latest stable version recommended)
- Flutter mobile application
- Backend server running on Node.js
- MySQL database server
- Internet connection for real-time bidding



A screenshot of MySQL Workbench. On the left, the Navigator pane shows the schema structure, including tables like bids, managers, teams, players, and users. The main area displays the 'players' table with the following data:

player_id	name	role	country	base_price	status	sold_price	image_url
1	Wanindu Hasaranga	ALL_ROUNDER	Sri Lanka	100000.00	UNSOLD		<a href="https://media.gettyimages.com/id/2155432491/photo/sri-lanka-port">https://media.gettyimages.com/id/2155432491/photo/sri-lanka-port</a>
2	Babar Azam	BATSMAN	Pakistan	120000.00	UNSOLD		<a href="https://i13.cricketcountry.com/lip-content/uploads/2024/02/Babar-Azam-1000x1000.jpg">https://i13.cricketcountry.com/lip-content/uploads/2024/02/Babar-Azam-1000x1000.jpg</a>
3	David Miller	BATSMAN	South Africa	110000.00	UNSOLD		<a href="https://i13.cricketpakistan.com.pk/Images/posts/cover/_1719902690.jpg">https://i13.cricketpakistan.com.pk/Images/posts/cover/_1719902690.jpg</a>
4	Shakib Al Hasan	ALL_ROUNDER	Bangladesh	100000.00	UNSOLD		<a href="https://indieaddictor.com/images/2024/5/shakib1200C.webp?q=80">https://indieaddictor.com/images/2024/5/shakib1200C.webp?q=80</a>
5	Dasun Shanaka	ALL_ROUNDER	Sri Lanka	80000.00	UNSOLD		<a href="https://sader-anerenglish.s3.amazonaws.com/1654970667-Dasun-Shanaka-100x100.jpg">https://sader-anerenglish.s3.amazonaws.com/1654970667-Dasun-Shanaka-100x100.jpg</a>
6	Pathum Nissanka	BATSMAN	Sri Lanka	70000.00	UNSOLD		<a href="https://i13.lkstorage.lk/storage/2024/02/Pathum-Nissanka-100x100.jpg">https://i13.lkstorage.lk/storage/2024/02/Pathum-Nissanka-100x100.jpg</a>
7	Chirath Asalanka	BATSMAN	Sri Lanka	65000.00	UNSOLD		<a href="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRAjRwV7">https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRAjRwV7</a>
8	Kusal Perera	WICKET_KEEPER	Sri Lanka	75000.00	UNSOLD		<a href="https://i13.ytimg.com/images/q=tbn:ANd9GcQ9Q96Stog">https://i13.ytimg.com/images/q=tbn:ANd9GcQ9Q96Stog</a>
9	Kusal Mendis	WICKET_KEEPER	Sri Lanka	75000.00	UNSOLD		<a href="https://i13.lkstorage.lk/storage/2025/07/Copy-of-Kusal-Mendis-50x50.jpg">https://i13.lkstorage.lk/storage/2025/07/Copy-of-Kusal-Mendis-50x50.jpg</a>
10	Angelo Mathews	ALL_ROUNDER	Sri Lanka	50000.00	UNSOLD		<a href="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcREvvn4K">https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcREvvn4K</a>
11	Dhananjaya de Silva	ALL_ROUNDER	Sri Lanka	60000.00	UNSOLD		<a href="https://10.wg.com/creedday.com/lip-content/Uploads/2023/06/1638">https://10.wg.com/creedday.com/lip-content/Uploads/2023/06/1638</a>
12	Maheesh Theekshaka	BOWLER	Sri Lanka	80000.00	UNSOLD		<a href="https://encrypted-tbn0.gstatic.com/images/q=tbn:ANd9GcQeJyvQ">https://encrypted-tbn0.gstatic.com/images/q=tbn:ANd9GcQeJyvQ</a>
13	Mathiesha Pathirana	BOWLER	Sri Lanka	75000.00	UNSOLD		<a href="https://www.newsire.lk/lip-content/Uploads/2024/01/Screenshot_">https://www.newsire.lk/lip-content/Uploads/2024/01/Screenshot_</a>
14	Dishan Madushanka	BOWLER	Sri Lanka	65000.00	UNSOLD		<a href="https://encrypted-tbn0.gstatic.com/images/q=tbn:ANd9GcQ46l6p">https://encrypted-tbn0.gstatic.com/images/q=tbn:ANd9GcQ46l6p</a>
15	Dushmantha Chameera	BOWLER	Sri Lanka	70000.00	UNSOLD		<a href="https://www.thespaper.com/lip-content/Uploads/Dushmantha-Chameera-100x100.jpg">https://www.thespaper.com/lip-content/Uploads/Dushmantha-Chameera-100x100.jpg</a>
16	Kasun Rajitha	BOWLER	Sri Lanka	50000.00	UNSOLD		<a href="https://i13.lkstorage.lk/storage/2022/12/Copy-of-Kasun-Rajitha-100x100.jpg">https://i13.lkstorage.lk/storage/2022/12/Copy-of-Kasun-Rajitha-100x100.jpg</a>
17	Chamika Karunaratne	ALL_ROUNDER	Sri Lanka	55000.00	UNSOLD		<a href="https://encrypted-tbn0.gstatic.com/images/q=tbn:ANd9GcRT1U7P">https://encrypted-tbn0.gstatic.com/images/q=tbn:ANd9GcRT1U7P</a>
18	Avishka Fernando	BATSMAN	Sri Lanka	60000.00	UNSOLD		<a href="https://i13.lkstorage.lk/storage/2023/07/Avishka-Fernando-100x100.jpg">https://i13.lkstorage.lk/storage/2023/07/Avishka-Fernando-100x100.jpg</a>
19	Sadeera Samarawickrama	WICKET_KEEPER	Sri Lanka	55000.00	UNSOLD		<a href="https://img1.hecdn.com/Image/upload/f_auto/fsc/bb/PICTURES/OF">https://img1.hecdn.com/Image/upload/f_auto/fsc/bb/PICTURES/OF</a>
20	Dunith Wellage	ALL_ROUNDER	Sri Lanka	40000.00	UNSOLD		<a href="https://encrypted-tbn0.gstatic.com/images/q=tbn:ANd9GcRzR8L">https://encrypted-tbn0.gstatic.com/images/q=tbn:ANd9GcRzR8L</a>

```
PS D:\Users\User\Downloads\LPL Auction System\server> node index.js
[dotenv@17.2.3] injecting env (6) from .env -- tip: ⚡ load multiple .env files with { path: ['.env.local', '.env'] }
[dotenv@17.2.3] injecting env (0) from .env -- tip: ⚡ override existing env vars with { override: true }
Database connected!
Server running on port 5000
```

### 3. User Roles and Permissions

Role	Description
Administrator	Manages users, players, and system configuration
Auctioneer	Controls auction flow and bidding rounds
Team Manager	Participates in bidding and manages team budget

Each user is granted access only to features relevant to their role.

The image displays three screenshots of a mobile application interface, illustrating the user roles and permissions:

- Admin Dashboard (S):** Shows a "Dashboard Overview" with four cards: "Total Players" (80), "Active Teams" (5), "Total Purse" (\$5.0M), and "Bidding" (\$55000). Below this is a "Management" section with "User Management", "Player Management", "Team Management", and "Reports". Navigation icons at the bottom include Home, Players, a plus sign, and Teams.
- Auctioneer Dashboard (A):** Shows a "Dashboard Overview" with a green "LIVE BIDDING" card for Player: Bhanuka Rajapaksa, Current Bid: \$55000. It also includes "View List" (Players), "View Team" (Teams), "Statistics", and "Configure" (Settings).
- Colombo Strikers (C):** Shows a "Dashboard Overview" with a green "LIVE BIDDING" card for Player: Bhanuka Rajapaksa, Current Bid: \$55000. It includes "View List" (Players), "View Teams" (Opponents), "Statistics", and "Details" (My Team).

## 4. System Access and Login

### 4.1 Launching the Application

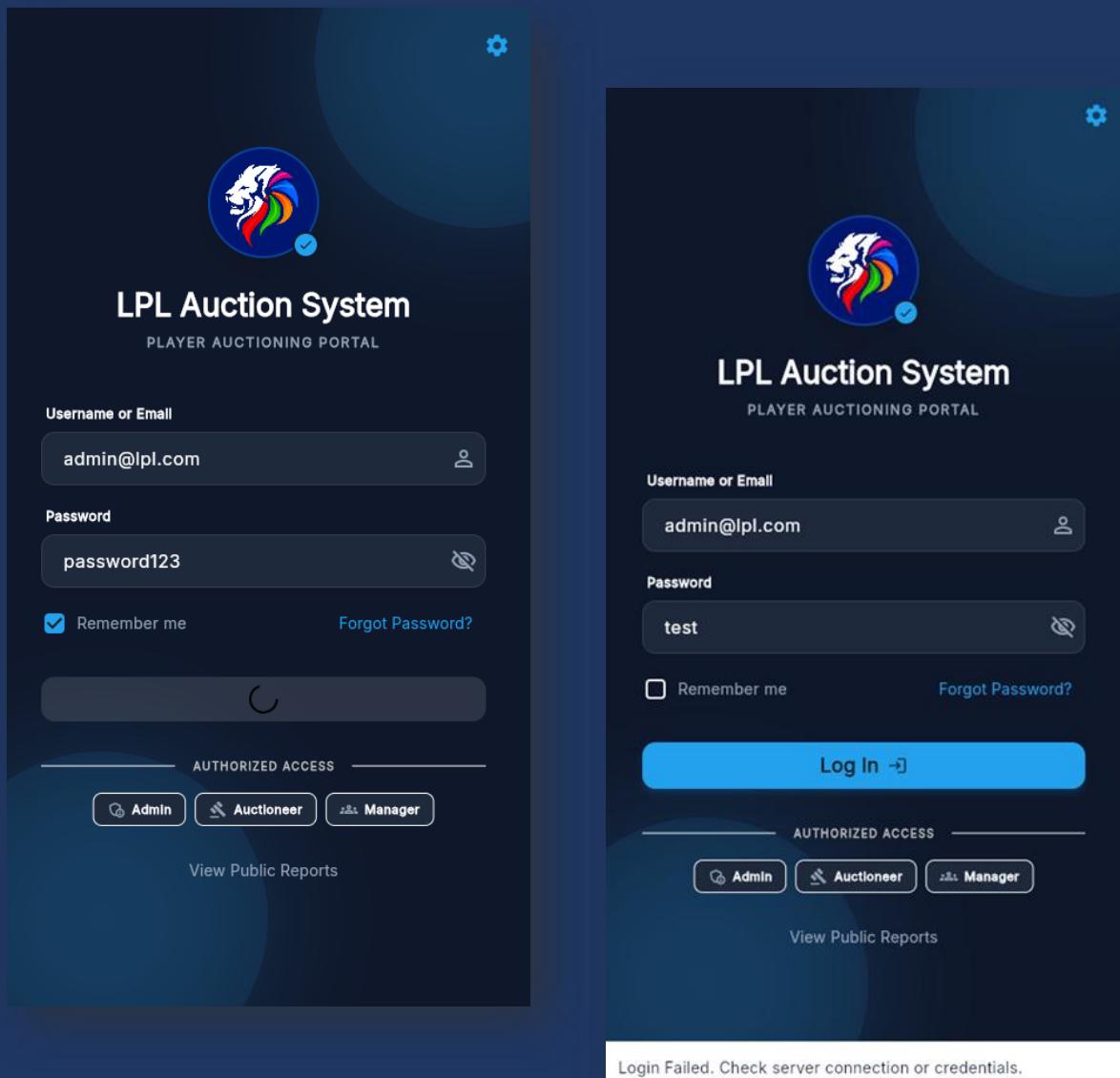
1. Open the Cricket Players Auctioning System mobile application.
2. Ensure the backend server is running and connected.

### 4.2 User Login

1. Enter registered email address.
2. Enter password.
3. Tap the **Login** button.
4. Upon successful authentication, the user is redirected to the relevant dashboard.

#### Error Handling:

- Invalid credentials will display an error message.
- Unauthorized users cannot access the system.

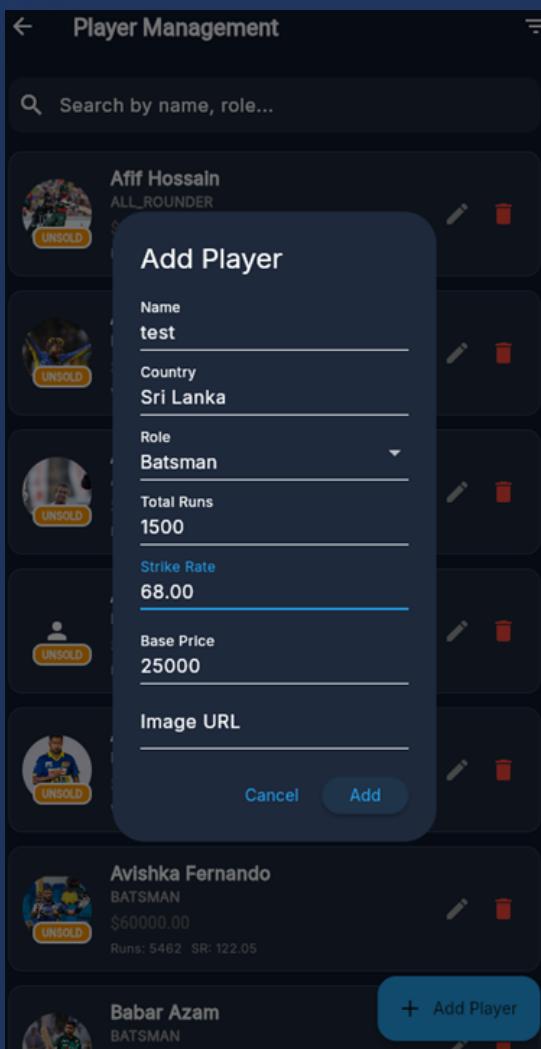


## 5. Administrator Functions

### 5.1 Player Management

1. Log in as Administrator.
2. Navigate to **Player Management**.
3. Click **Add Player**.
4. Enter:
  - o Player name
  - o Player role
  - o Base price
5. Save the player details.

The added player will be stored in the database and made available for auction.



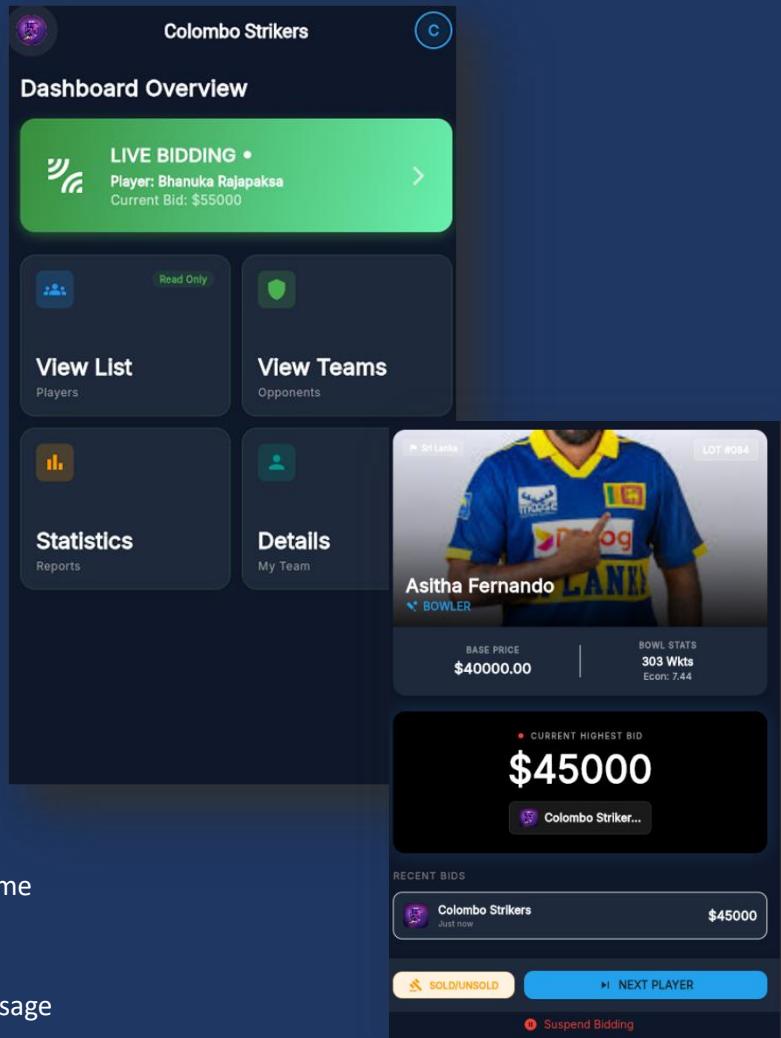
## 6. Team Manager Functions

### 6.1 Viewing Team Dashboard

1. Log in as Team Manager.
2. The dashboard displays:
  - o Total team budget
  - o Remaining budget
  - o Purchased players

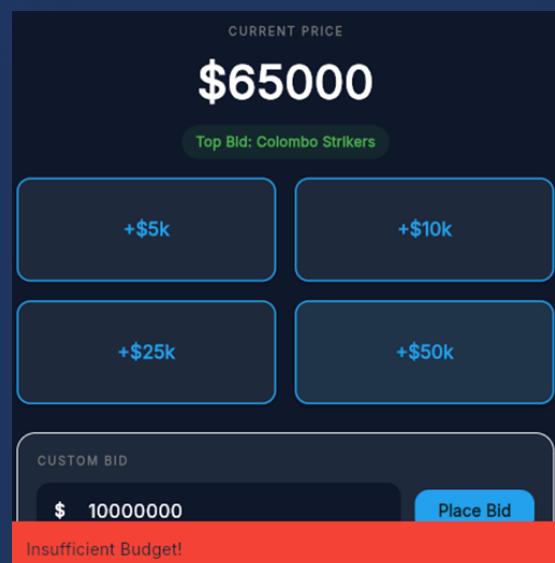
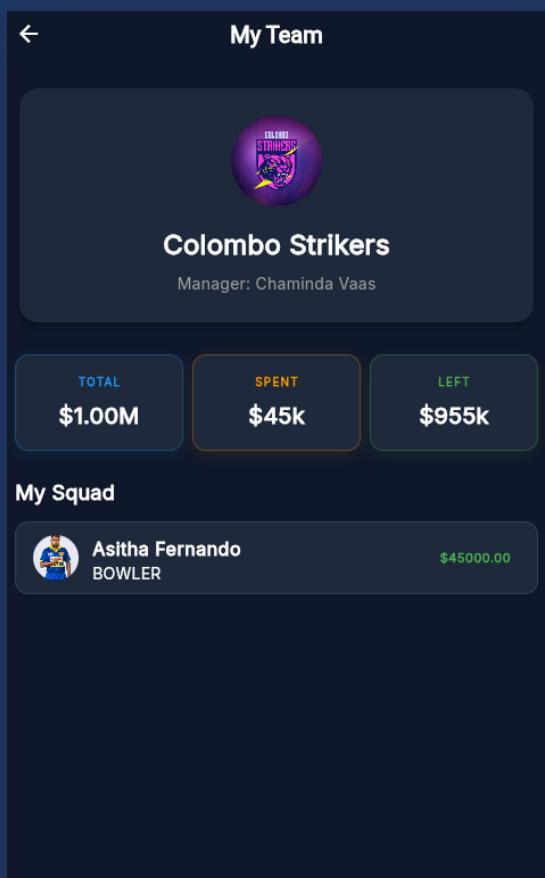
### 6.2 Placing a Bid

1. Navigate to the **Live Auction** screen.
2. Enter bid amount.
3. Click **Place Bid**.
4. If valid:
  - o Bid is accepted
  - o Highest bid updates in real time
5. If invalid:
  - o System displays an error message



#### Note:

Bids exceeding remaining budget or lower than the current highest bid are automatically rejected.



## 7. Auctioneer Functions

### 7.1 Starting an Auction

1. Log in as Auctioneer.
2. Select a player for auction.
3. Click **Start Auction**.
4. Bidding becomes active for all team managers.

### 7.2 Monitoring Bids

- Auctioneer can view:
  - Current highest bid
  - Bidding team
  - Real-time bid updates

### 7.3 Stopping the Auction

1. Click **Stop Auction**.
2. The system:
  - Assigns the player to the highest bidding team
  - Updates team budget
  - Stores auction results

The screenshot shows the 'Auctioneer Dashboard' with the title 'Dashboard Overview'. It features a red header bar with the 'AUCTION ROOM' section, which includes a warning message: 'No active round. Enter to start.' Below this are four main cards: 'View List' (Players, Read Only), 'View Teams' (Teams), 'Statistics' (Reports), and 'Configure' (Settings). At the bottom, there's a navigation bar with a back arrow, the text 'LPL Auction AUCTION PANEL', and a user icon.

The screenshots illustrate the auction process:

- Left Screenshot:** Shows the 'Select Player' screen with a search bar and a list of players. A player named Afif Hossain is selected, shown in a larger card with details like base price (\$50000.00) and stats.
- Middle Screenshot:** Shows the 'BIDDING ACTIVE' screen for player Afif Hossain. It displays the current highest bid at \$60000 by 'Colombo Striker...'. Below it, a 'RECENT BIDS' section shows a recent bid from 'Colombo Strikers'.
- Right Screenshot:** Shows a 'Suspend Bidding?' confirmation dialog. It asks if the user wants to cancel the current round and reset the auction state. The dialog includes 'Cancel' and 'Suspend' buttons, and shows the current bid amount of \$60000.

## 8. Budget Management

- Each team is assigned a fixed budget.
- The system automatically:
  - Deducts bid value from remaining budget
  - Prevents overspending
- Budget updates occur instantly after each successful bid.

Team Management

**Jaffna Kings**  
Manager: Sanath Jayasuriya

---

0 Players	\$0k Spent	\$1.0M Remaining
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---

**Colombo Strikers**  
Manager: Chaminda Vaas

---

1 Players	\$45k Spent	\$955k Remaining
--------------	----------------	---------------------

---

**Galle Titans**  
Manager: Lasith Malinga

---

0 Players	\$0k Spent	\$1.0M Remaining
--------------	---------------	---------------------

---

**Dambulla Aura**  
Manager: Mahela Jayawardene

---

0 Players	\$0k Spent	\$1.0M Remaining
--------------	---------------	---------------------

---

**B-Love Kandy**  
Manager: Kumar Sangakkara

My Team

**Colombo Strikers**  
Manager: Chaminda Vaas

---

<b>TOTAL</b> \$1.00M	<b>SPENT</b> \$45k	<b>LEFT</b> \$955k
-------------------------	-----------------------	-----------------------

---

**My Squad**

**Asitha Fernando**  
Bowler  
\$45000.00

## 9. Auction Results and Data Storage

After an auction round:

- Player is assigned to the winning team
- Bid details are stored in the database
- Auction history is available for reporting and auditing

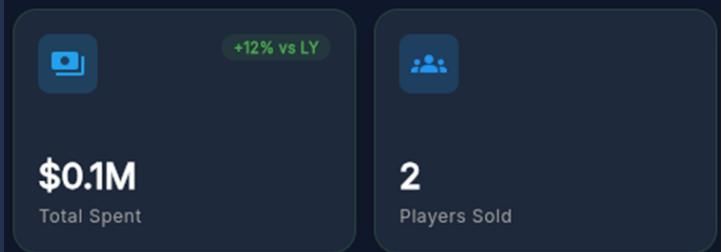
### Player Management

Search by name, role...

Name	Role	Status	Auction Price	Sold To
Afif Hossain	ALL_ROUNDER	SOLD	\$65000.00	Colombo Strikers
Akila Dananjaya	BOWLER	UNSOLED	\$40000.00	
Angelo Mathews	ALL_ROUNDER	UNSOLED	\$50000.00	
Ashen Bandara	BATSMAN	UNSOLED	\$35000.00	
Asitha Fernando	BOWLER	SOLD	\$45000.00	Colombo Strikers
Avishka Fernando	BATSMAN	UNSOLED	\$60000.00	
Babar Azam				

### Auction Reports

#### Auction Summary

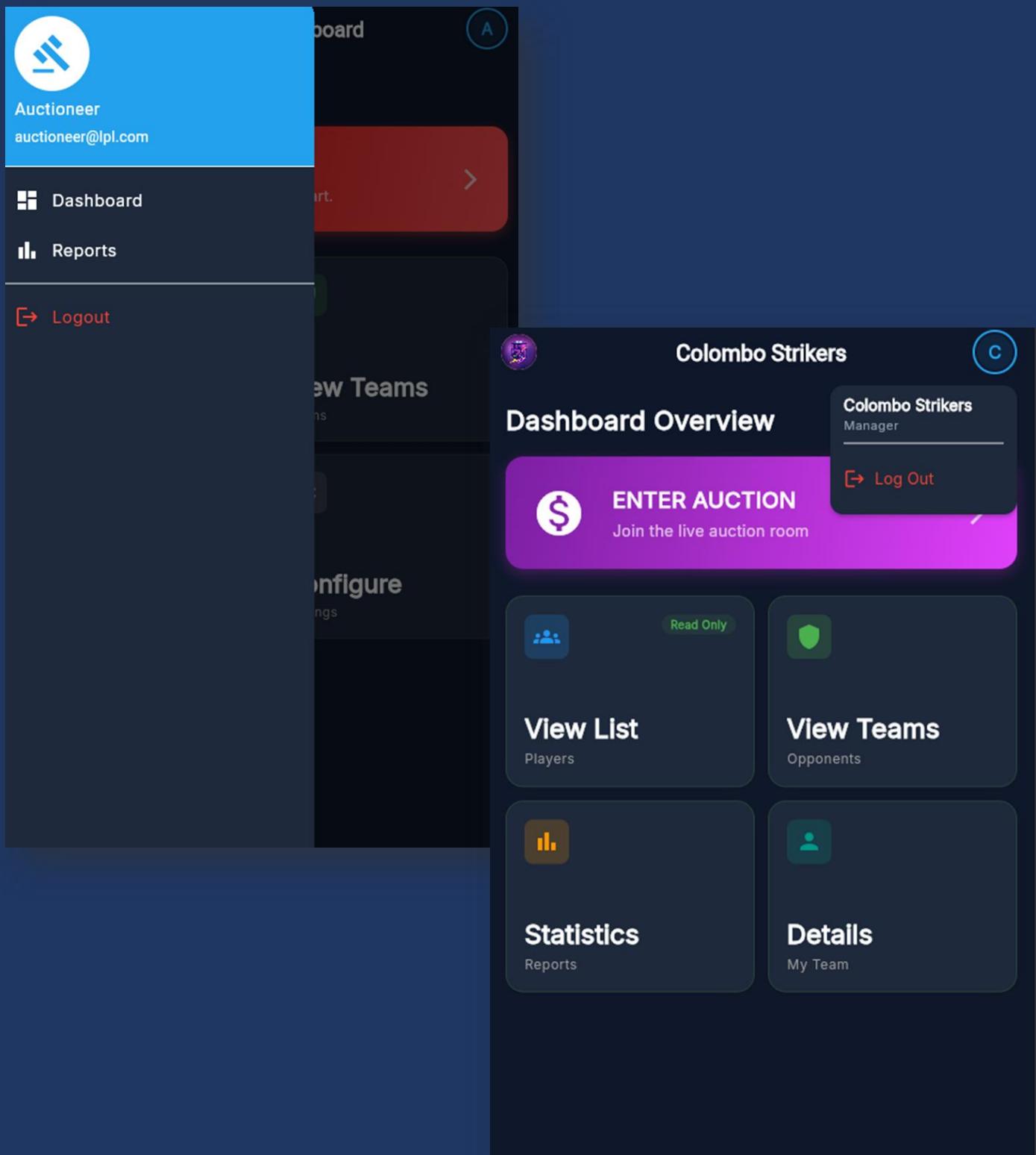


#### Recent Buys

Afif Hossain ALL_ROUNDER	\$65000.00 Colombo Strikers
Asitha Fernando BOWLER	\$45000.00 Colombo Strikers

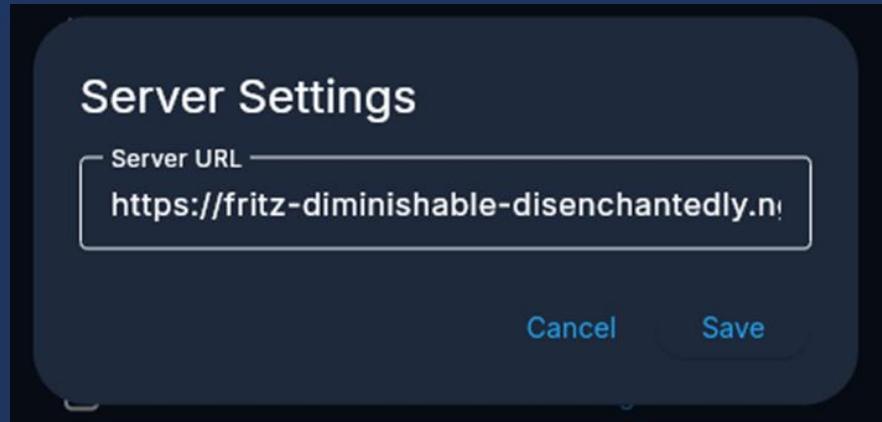
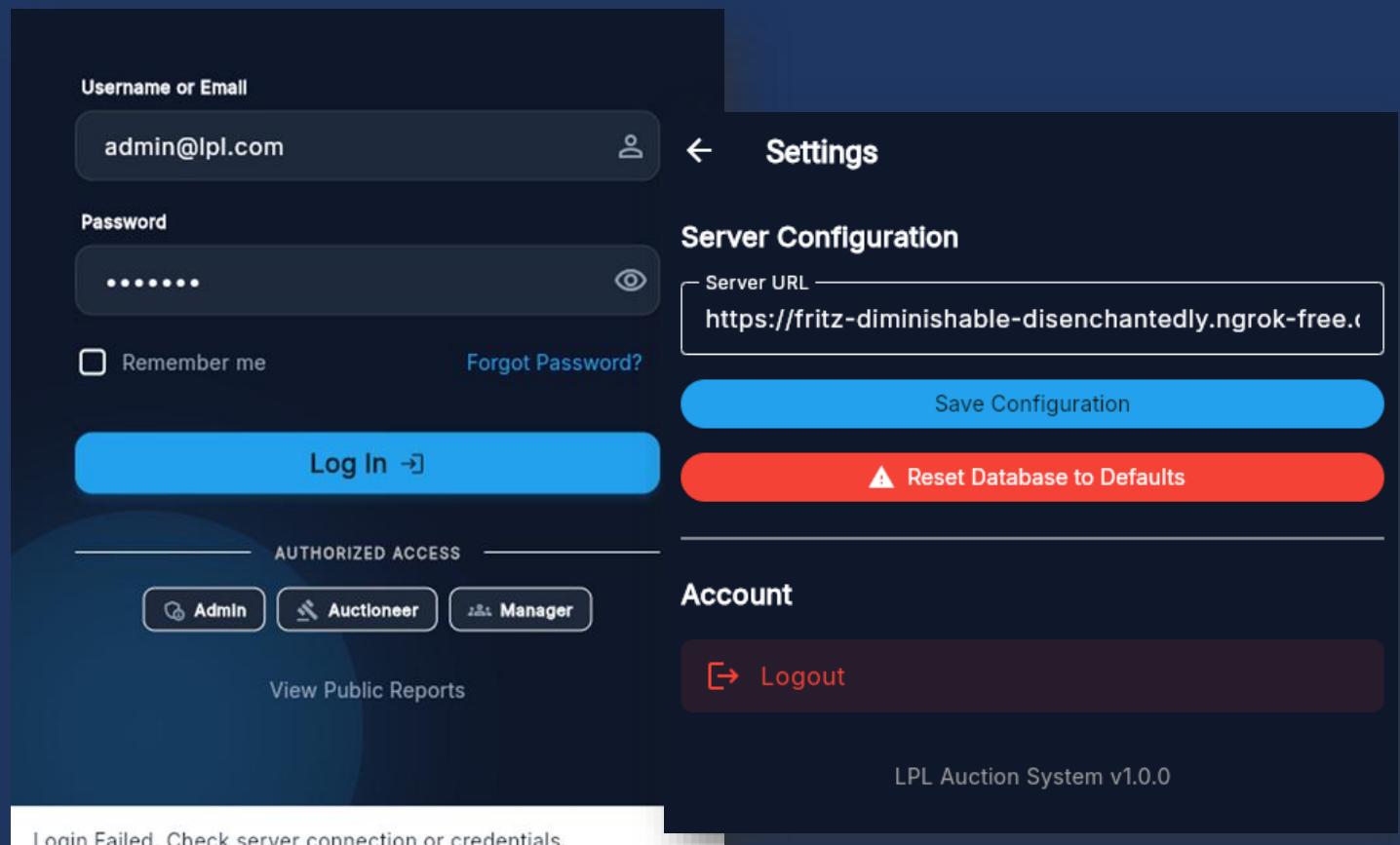
## 10. Logout Procedure

1. Click **Logout** from the dashboard.
2. User session is terminated.
3. User is redirected to the login screen.



## 11. Error Messages and Troubleshooting

Issue	Possible Cause	Solution
Login failed	Incorrect credentials	Verify email and password
Bid rejected	Budget exceeded	Check remaining budget
No real-time updates	Server not running	Restart backend server
App not loading	Network issue	Check internet connection



## 12. Security Features

- Role-based access control
  - Secure authentication
  - Session handling
  - Server-side bid validation

These features ensure system integrity and fair auction operations.

## 13. Conclusion

This user manual outlines the complete operational flow of the Cricket Players Auctioning System. By following the provided steps, users can efficiently conduct player auctions with improved accuracy, transparency, and speed compared to traditional manual processes. The system is user-friendly and designed to support real-time decision-making during auction events.

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Mobile Application for Lanka Premier League Auction System

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## LPL Auction System

A real-time auction system for the Lanka Premier League (LPL), designed to facilitate player auctions with a seamless experience for auctioneers and team owners. This project consists of a Node.js/Express backend and a Flutter mobile application.

### Features

- **Real-time Bidding:** Live updates for bids using Socket.io.
- **Auctioneer Control:** dedicated interface for managing the auction flow (start round, sell player, etc.).
- **Player Management:** Comprehensive player database with detailed stats and history.
- **Team Management:** Create and manage teams, assign players, and track performance.
- **Reporting:** Generate reports on auction results, player statistics, and team performance.

### Technologies

Dart 68.1%  JavaScript 17.5%   
C++ 7.2%  CMake 5.8%   
Swift 0.6%  C 0.4%  Other 0.4% 

### Suggested workflows

Based on your tech stack

Flutter  Dart  C  CMake  Java  Kotlin  Swift  Objective-C  Go  Python  PHP  C++  C#  TypeScript  Rust  F#  Elixir  Erlang  Scala  Haskell  OCaml  Erlang  Prolog  Smalltalk  Clojure  Erlang  Erlang <img alt="Erlang logo" data-bbox="14545 82