

# Angular IPL App



A Web Application for IPL Team and Player Management

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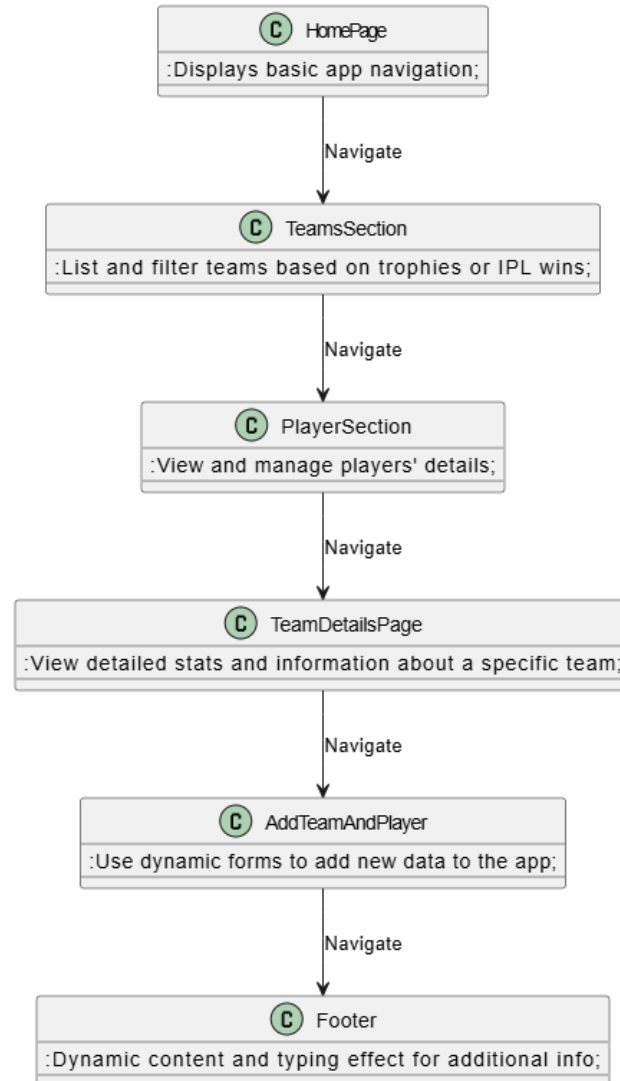
# Application Details

- Manage IPL teams, players, and calculate stats like win chances, display team/player details, and enable interactive features for users.
- Features include viewing teams, players, team highlights, and a responsive UI.
- Dynamic forms for adding new teams and players, filtering teams based on trophies, and displaying detailed information.

# Workflow Overview

- ❑ **Team and Player Management:** Users can view teams and players with their detailed statistics and manage them via forms.
- ❑ **Team Highlights:** Team winning probabilities and key stats are highlighted dynamically.
- ❑ **Team List:** A list of teams with filtering and the option to show only teams that have never won the IPL.
- ❑ **Add Team and Player:** Users can add new teams and players with the help of dynamic forms.

# Application Workflow



# Application Workflow

- ❑ **Home Page:** Displays basic app navigation.
- ❑ **Teams Section:** List and filter teams based on trophies or whether they have won the IPL.
- ❑ **Player Section:** View and manage players' details.
- ❑ **Team Details Page:** View detailed stats and information about a specific team.
- ❑ **Add Team and Player:** Use dynamic forms to add new data to the app.
- ❑ **Footer:** Dynamic content and typing effect for additional info.

# Angular Concepts Used

**Components:** The building blocks of Angular apps consist of a template (HTML), a class (TypeScript), and styles (CSS) that manage UI and behavior.

**Parent-Child Components:** Communication between components, with @Input for passing data from parent to child and @Output for sending data from child to parent.

**Structural and Attribute Directives:**

- Structural directives, such as \*ngFor and \*ngIf, manipulate the DOM by adding or removing elements.
- Attribute directives, such as ngClass and ngStyle, modify the appearance or behavior of elements.
- @Input: A decorator used to pass data from a parent component to a child component, enabling reusability.

**Basic Routing:** Angular's Router enables navigation between different views or pages, defines routes, and links them to components.

**Services:** Used to handle data and logic that needs to be shared across multiple components, such as fetching data from an API.

**Observables:** A mechanism for handling asynchronous operations, typically used for HTTP requests and other asynchronous data sources.

**API Calls:** Angular's HttpClient is used to fetch data from external APIs, such as JSON Server, for simulating a backend.

**Template and Reactive Forms:**

- Template-driven forms: Simple forms that utilize Angular directives within the template.
- Reactive forms: More complex forms where form control logic is managed within the component class.
- Pipes: Used for transforming data in templates. Examples include filtering, formatting dates, and calculating values such as win chances.

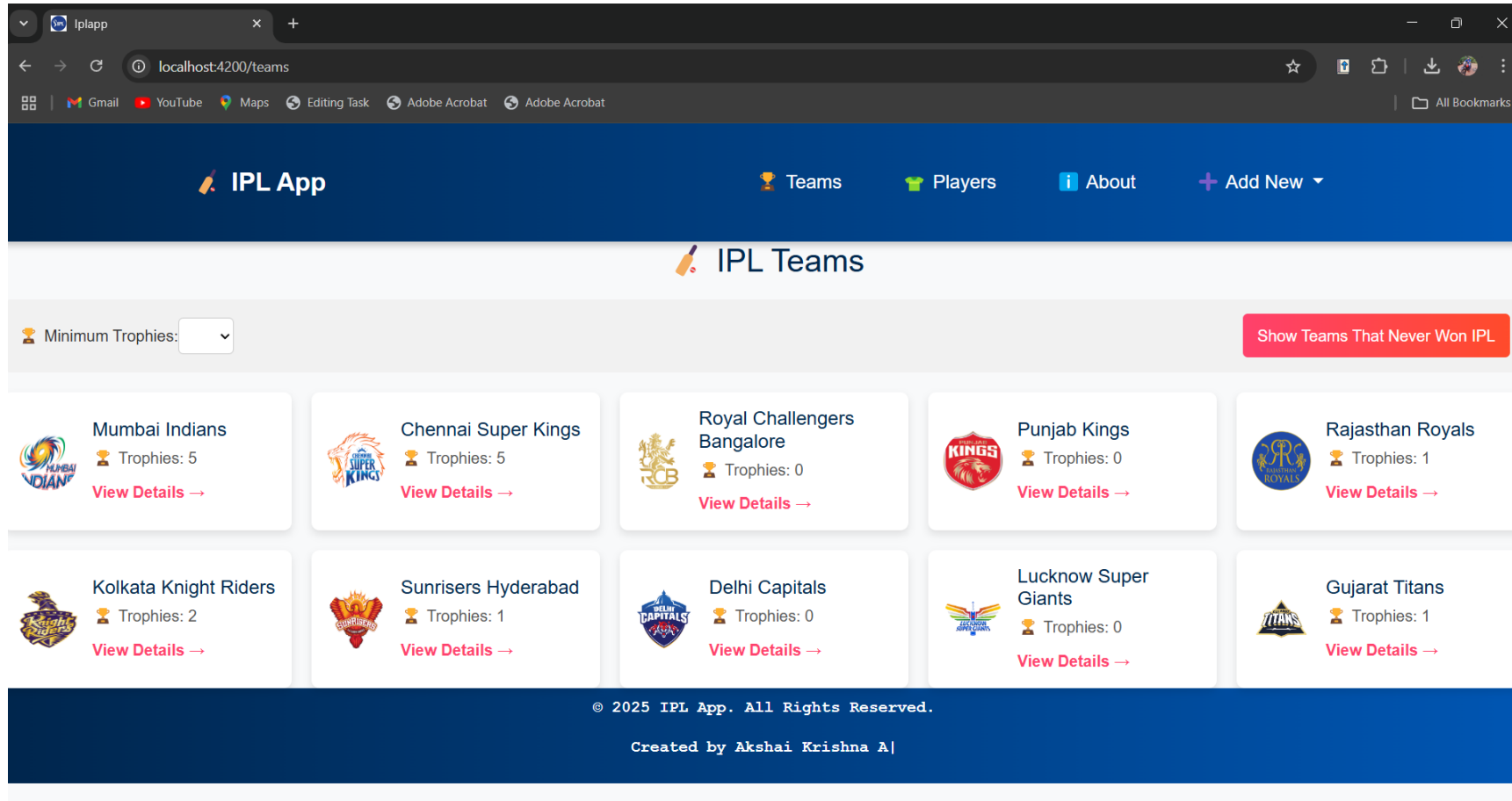
**NGINX:** Used as the webserver to serve the Angular application in a production environment.

**JSON Server:** Used to mock a RESTful API, simulate a backend for development purposes, and provide data for the Angular app.

# Technologies Used

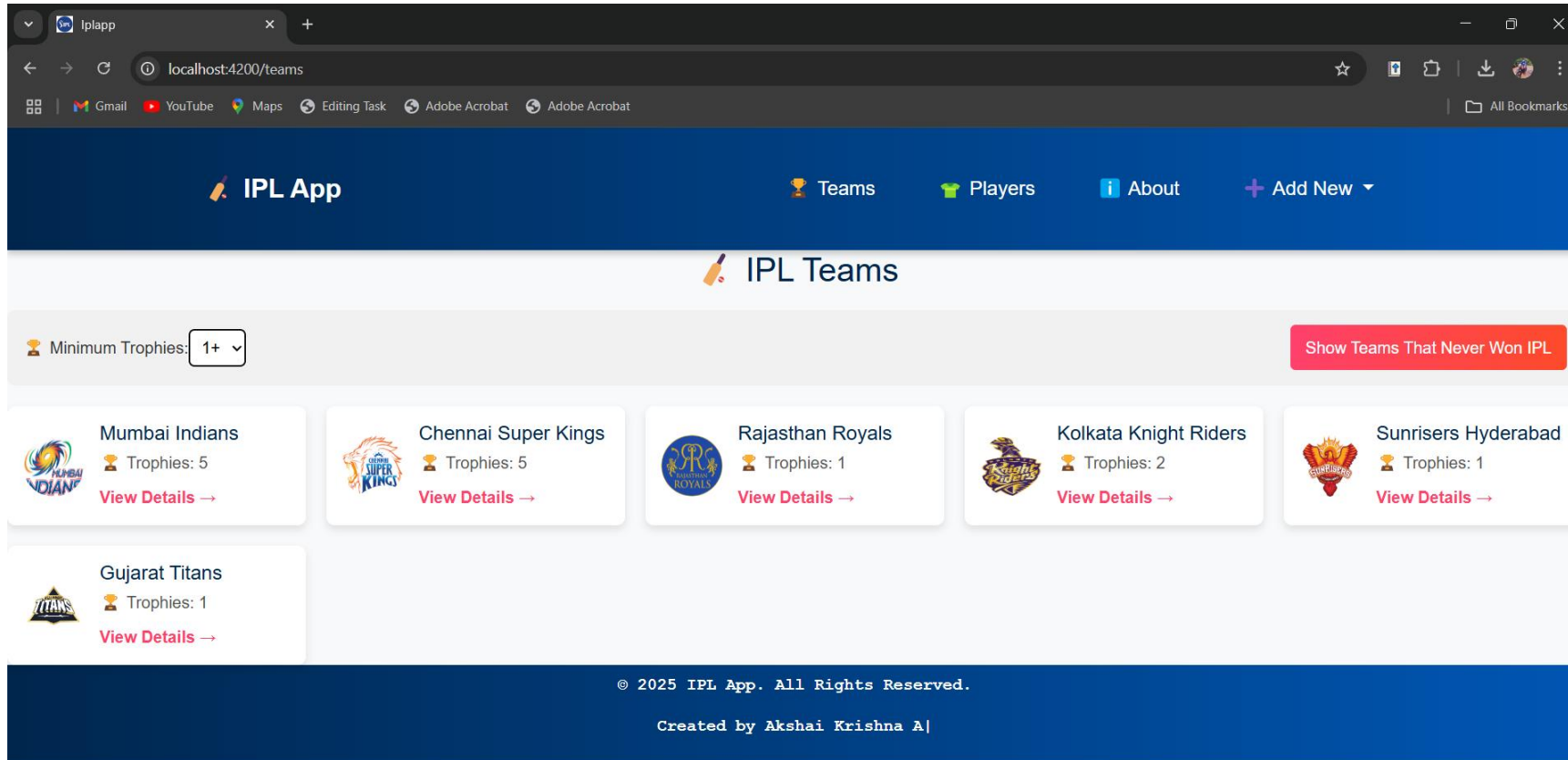
- **Frontend:** Angular (for SPA functionality)
- **Backend Simulation:** JSON Server (for mocking the backend API during development)
- **Styling:** CSS (including custom styling for components)
- **Libraries:** Angular Forms, Router, and Pipes
- **Web Server:** NGINX (used for serving the Angular app in a production environment)
- **Tools:** Visual Studio Code, Angular CLI

# Screenshots of Pages

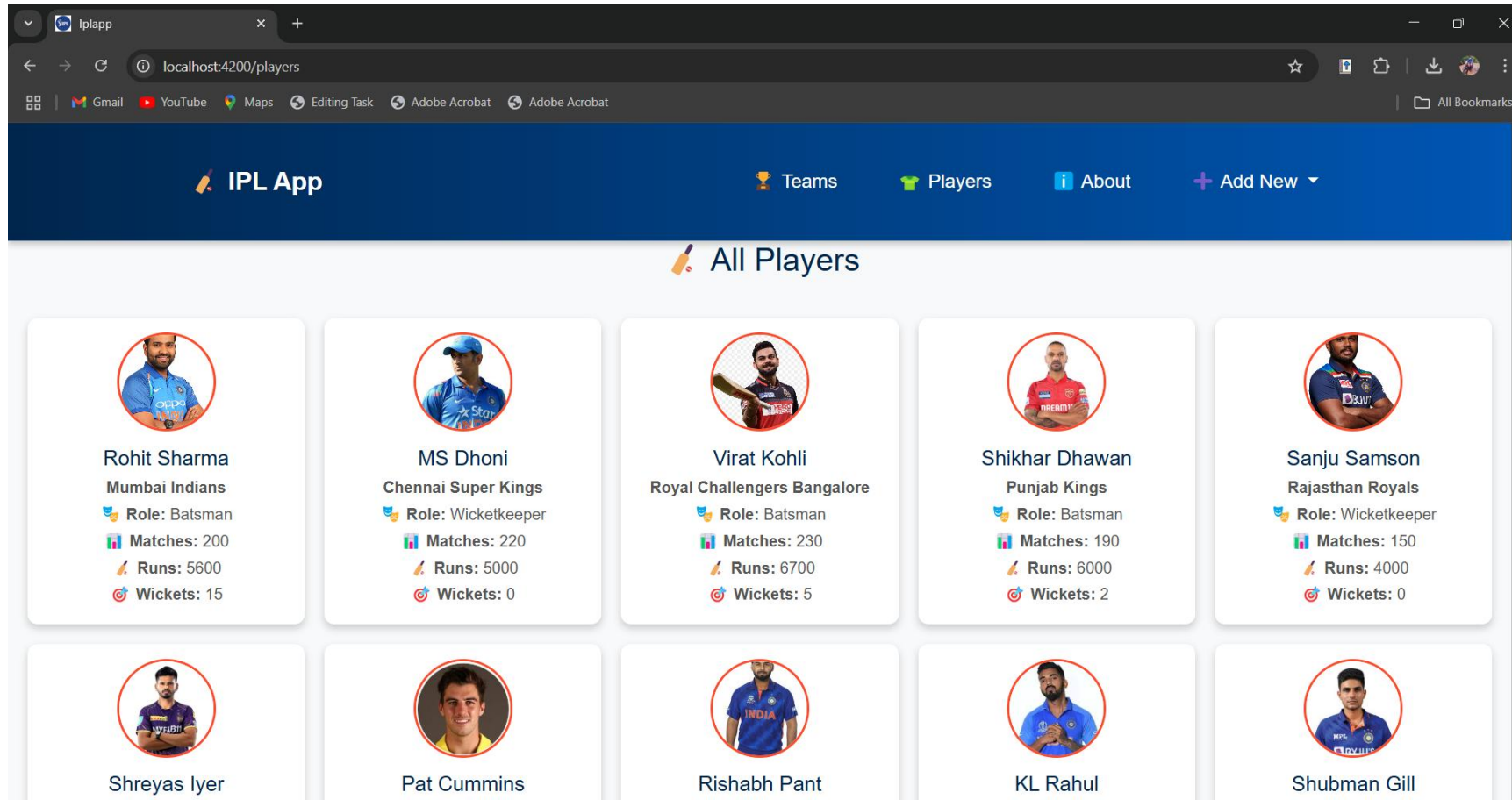




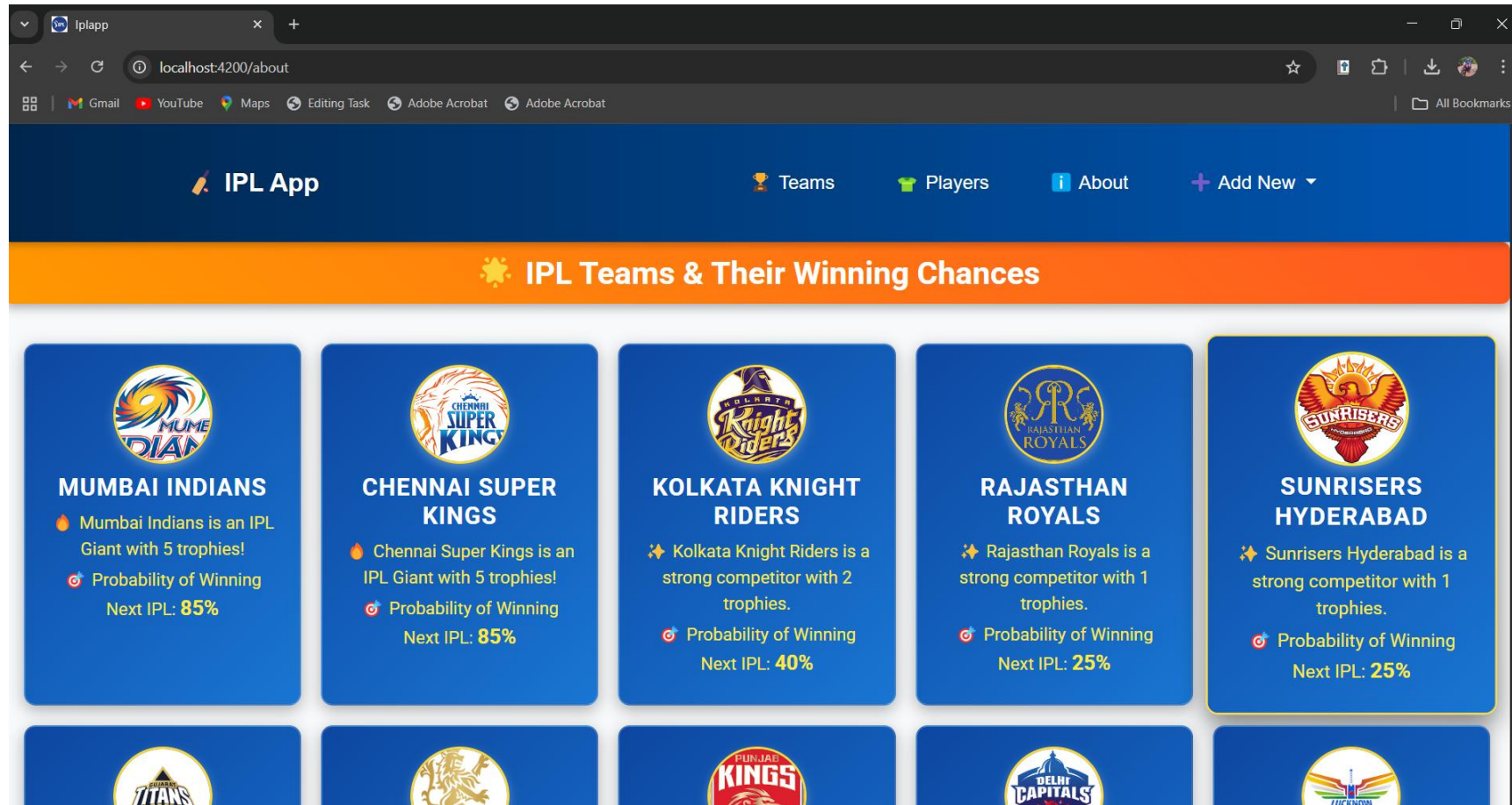
# Screenshots of Pages



# Screenshots of Pages



# Screenshots of Pages





# Screenshots of Pages


Iplapp


localhost:4200/add-team


GmailYouTubeMapsEditing TaskAdobe AcrobatAdobe AcrobatAll Bookmarks


 **IPL App**

 Teams

 Players

 About

 Add New ▾

 Add New Team

Team Name

Owner

Captain

Home Ground

Trophies

0

Logo URL

Add Team

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# Screenshots of Pages

localhost:4200/add-player

**IPL App** Teams Players About + Add New

## Add New Player

Player Name

Team

Role

Batsman

Matches Played

0

Runs

0

Wickets

0

Image URL

Add Player

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# Conclusion

- ❑ **Summary:** A fully interactive and responsive Angular application for managing IPL teams and players.
- ❑ **Future Improvements:** Integrating with a backend for dynamic data, adding more complex statistical analysis, and integrating real-time match data.

Thank you