SportBuzz Application

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Github Link:https://github.com/AnveshNalimela/sportbuzz

Introduction:

SportBuzz is a dynamic web application designed to cater to sports enthusiasts by providing real-time match scores and up-to-date sports news articles. This platform not only keeps users informed about their favourite sports and teams but also offers a personalized experience by allowing users to manage their preferences and profile settings.

Objectives:

1. **Real-Time Updates:** To provide users with the latest match scores and detailed information about ongoing and past matches.
2. **News and Articles:** To offer a wide range of sports-related news articles, ensuring users stay informed about developments in the sports world.
3. **User Personalization:** To enhance user experience through profile management and customization of sports and team preferences.
4. **Responsive Design:** To ensure accessibility and a seamless user experience across various devices and screen sizes.
5. **Security:** To implement secure authentication mechanisms for user sign-in and sign-up processes.

Features:

1. **User Authentication:**
    - Secure sign-in and sign-up functionalities.
    - Token-based authentication to protect user data and sessions.
2. **Profile Management:**
    - Allows users to view and update their profile information.
    - Enables users to change their password securely.
3. **Preferences:**
    - Users can select and manage their favorite sports and teams.
    - Personalized content based on user preferences.
4. **Match Scores:**
    - Displays real-time match scores and details.
    - Users can view information about specific matches through dedicated match pages.
5. **News Articles:**
    - Provides access to the latest sports news articles.
    - Users can read detailed articles on specific sports events and topics.
6. **Responsive Design:**
    - Ensures the application is accessible and usable on desktops, tablets, and mobile devices.
7. **Progressive Web App (PWA) Features:**
    - Offline capabilities and faster load times for an enhanced user experience.

Technologies and Libraries:

1. **React and Related Libraries:**
    - **react**: A JavaScript library for building user interfaces.
    - **react-dom**: Provides DOM-specific methods that can be used at the top level of a web app to enable an efficient way of managing DOM elements.
    - **react-hook-form**: A library for handling form validation in React applications.
    - **react-router-dom**: A library for handling routing in React applications.
2. **UI Components and Styling:**
    - **@headlessui/react**: A set of completely unstyled, fully accessible UI components, designed to integrate beautifully with Tailwind CSS.
    - **@heroicons/react**: A set of free, MIT-licensed high-quality SVG icons for you to use in your web projects.
    - **@tailwindcss/line-clamp**: A plugin for Tailwind CSS that provides utilities for truncating text.
3. **Types:**
    - **@types/jest**: TypeScript definitions for Jest.
    - **@types/react**: TypeScript definitions for React.
    - **@types/react-dom**: TypeScript definitions for React DOM.
    - **@types/node**: TypeScript definitions for Node.js.
    - **typescript**: A language that builds on JavaScript by adding static type definitions.
4. **PostCSS and Tailwind CSS:**
    - **postcss-cli**: A tool for using PostCSS from the command line.
    - **postcss**: A tool for transforming CSS with JavaScript plugins.
    - **postcss-preset-env**: A plugin that allows you to use future CSS features today.

- **tailwindcss**: A utility-first CSS framework for rapidly building custom user interfaces.

5. **PWA Support:**

    - **vite-plugin-pwa**: A Vite plugin for creating Progressive Web Applications (PWA).

DevDependencies

1. **Build Tools:**

    - **vite**: A build tool that aims to provide a faster and leaner development experience for modern web projects.
    - **@vitejs/plugin-react**: A Vite plugin for React.

2. **Linting and Formatting:**

    - **eslint**: A tool for identifying and fixing problems in JavaScript code.
    - **eslint-plugin-react**: An ESLint plugin for React.
    - **eslint-plugin-react-hooks**: An ESLint plugin for enforcing rules of hooks in React.
    - **eslint-plugin-react-refresh**: An ESLint plugin for React Refresh.

3. **Autoprefixing:**

    - **autoprefixer**: A PostCSS plugin that parses CSS and adds vendor prefixes to CSS rules.

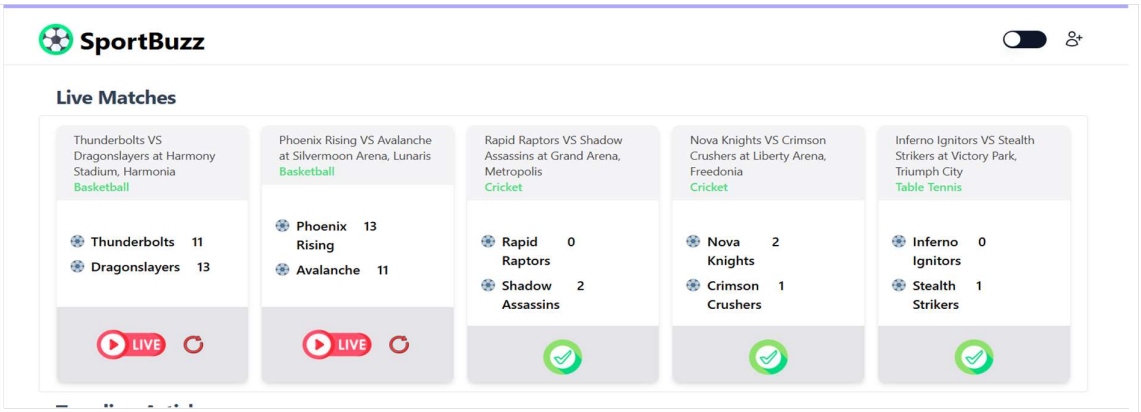
Technologies and Libraries:

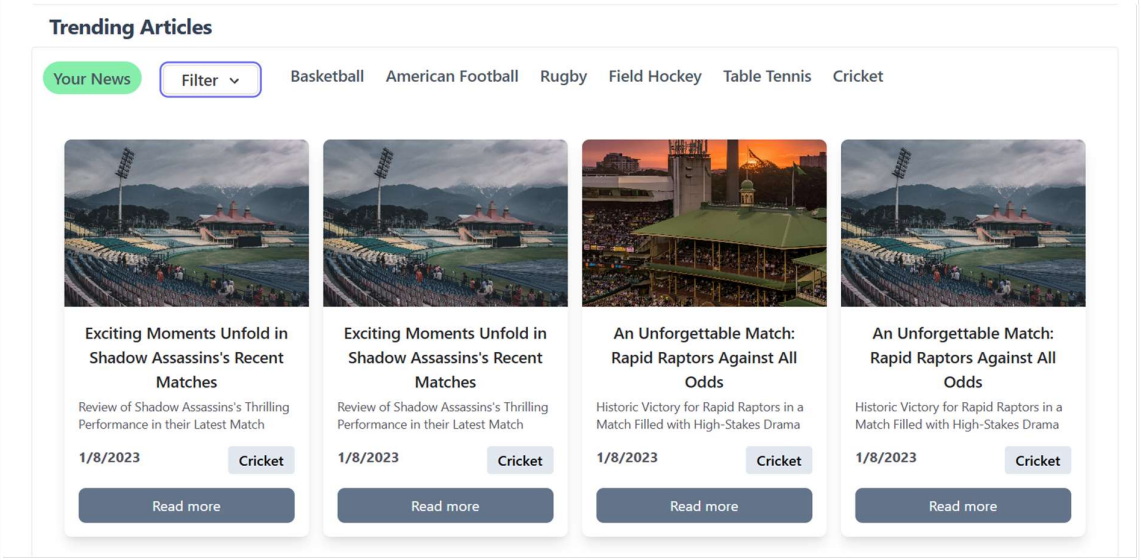
- **React:** For building the user interface.
- **React Router:** For handling client-side routing.
- **React Hook Form:** For form management and validation.
- **Headless UI & Heroicons:** For accessible and unstyled UI components and icons.
- **Tailwind CSS:** For styling using a utility-first CSS framework.
- **Vite:** For development and build processes.
- **TypeScript:** For static typing, ensuring better code quality and maintainability.
- **ESLint:** For linting and maintaining code quality.
- **Vite Plugin PWA:** For adding PWA features.

Home Page of SportBuzz Application:

The **Home** component serves as the main page for displaying live matches and trending articles. It uses lazy loading to optimize performance by loading the **Match List** and **Articles List** components only when needed. The **Error Boundary** component is used to catch and display errors that might occur during the rendering of these components.

- The navigation bar includes the application name **SportBuzz** and provide options for user sign-in and sign-up
- The landing screen should have a section for live scores, displaying the last five latest scores available in the application.
- The trending news section should include tabs for each sport, allowing users to view news articles specific to each sport.
- The trending article view should showcase the most popular or trending articles across all sports.

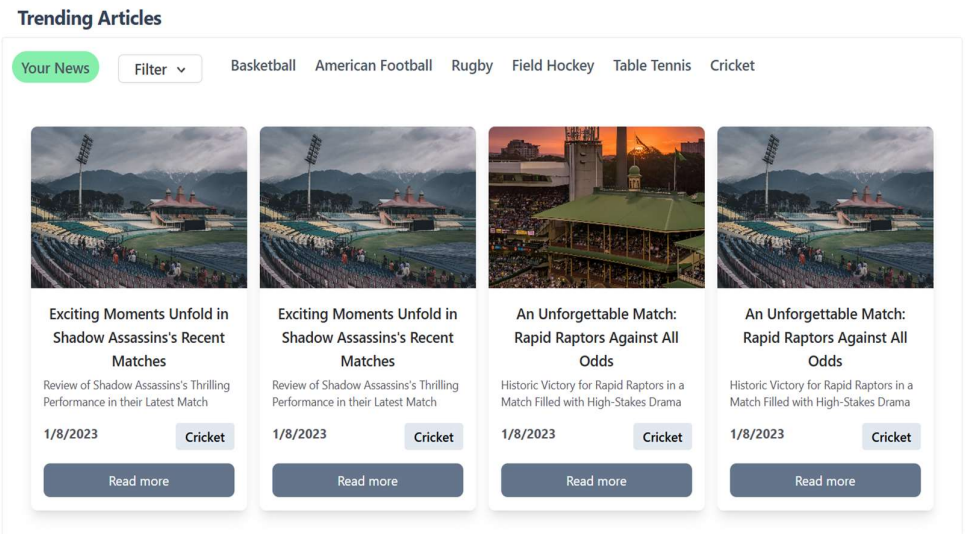


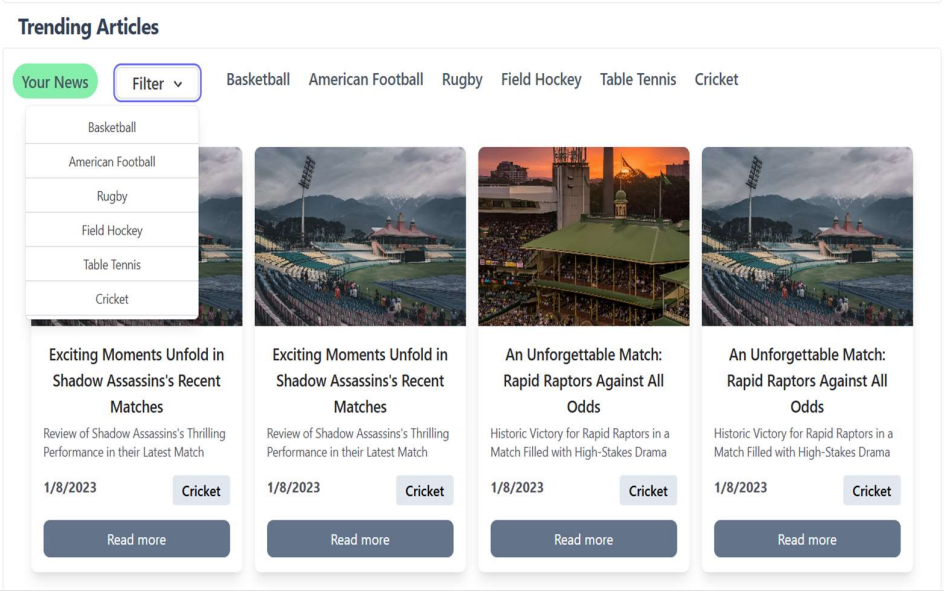


Filter Layout:

The filter layout enables users to select a sport and choose a team within that sport.

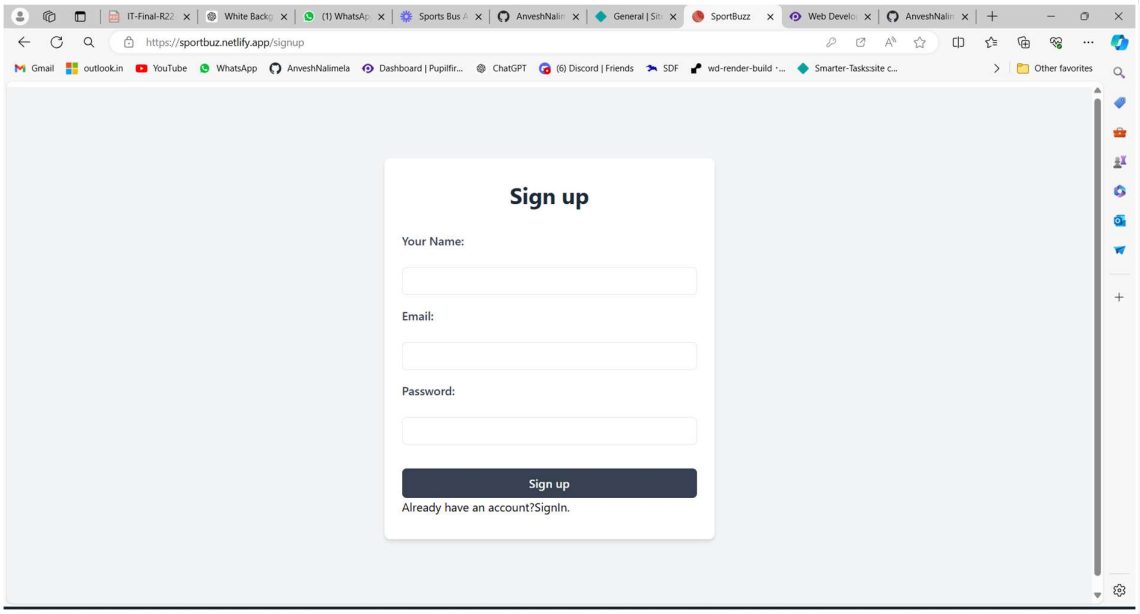
The selected filters used to display news articles relevant to the chosen sport and team.

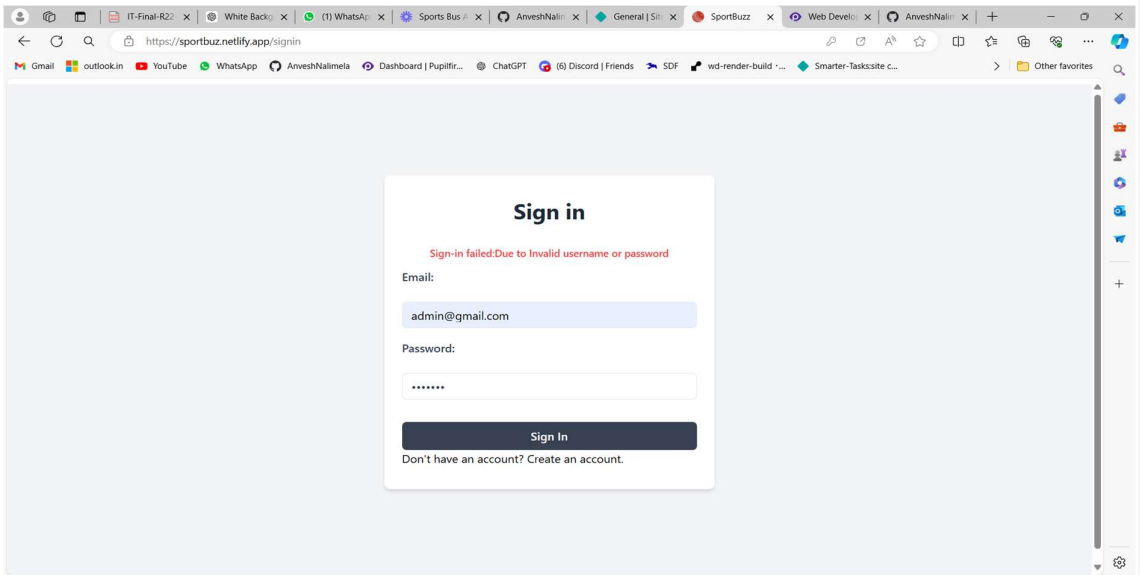




Sign-in and Sign-up Pages:

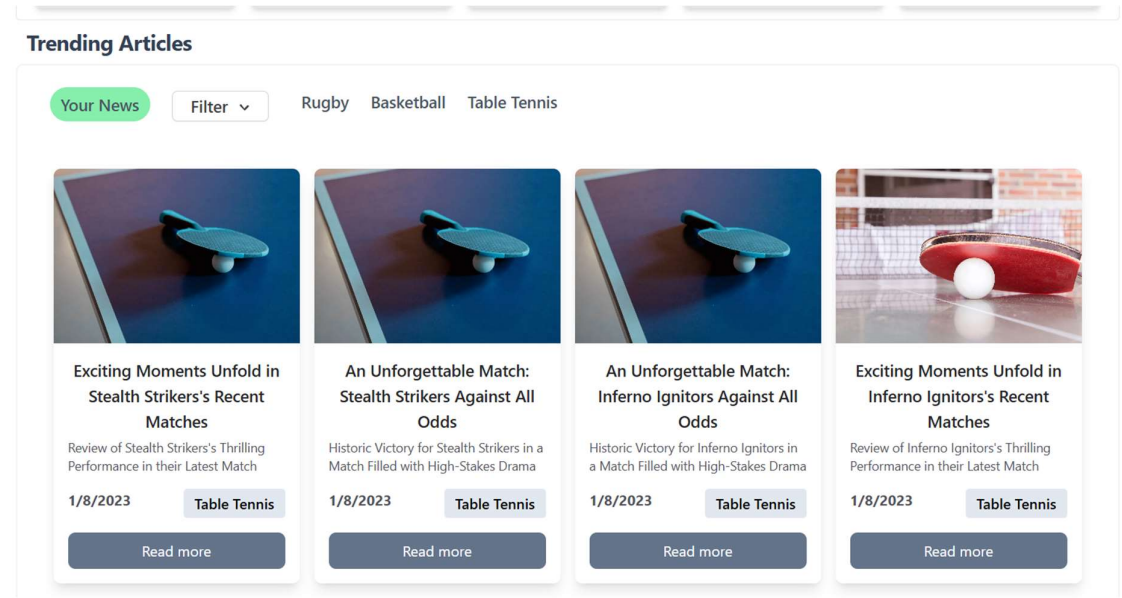
- The sign-in and sign-up pages should be accessible from the navigation bar icon on the landing page.
- Users should be able to register and create an account if they are new to the application.
- Existing users should be able to sign in to their accounts.

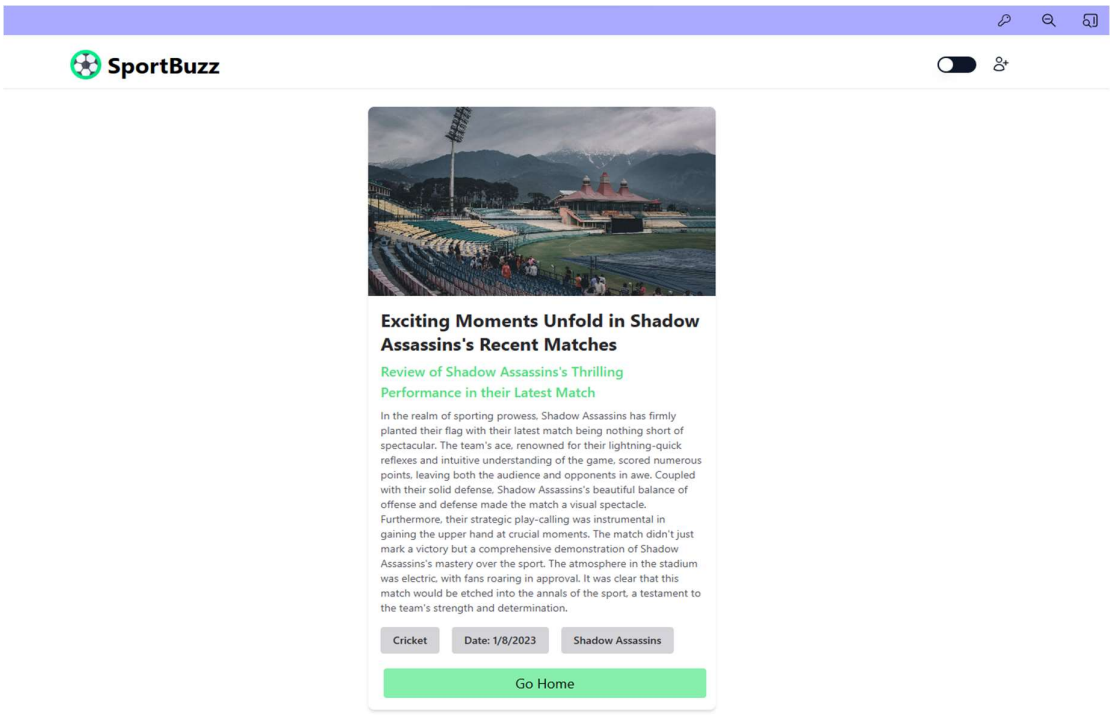




Detailed News Article View:

- Clicking on the *Read More* icon or text on a news article should open a pop-up or modal dialogue.
- The pop-up should display a detailed view of the news article, including an image and relevant content.





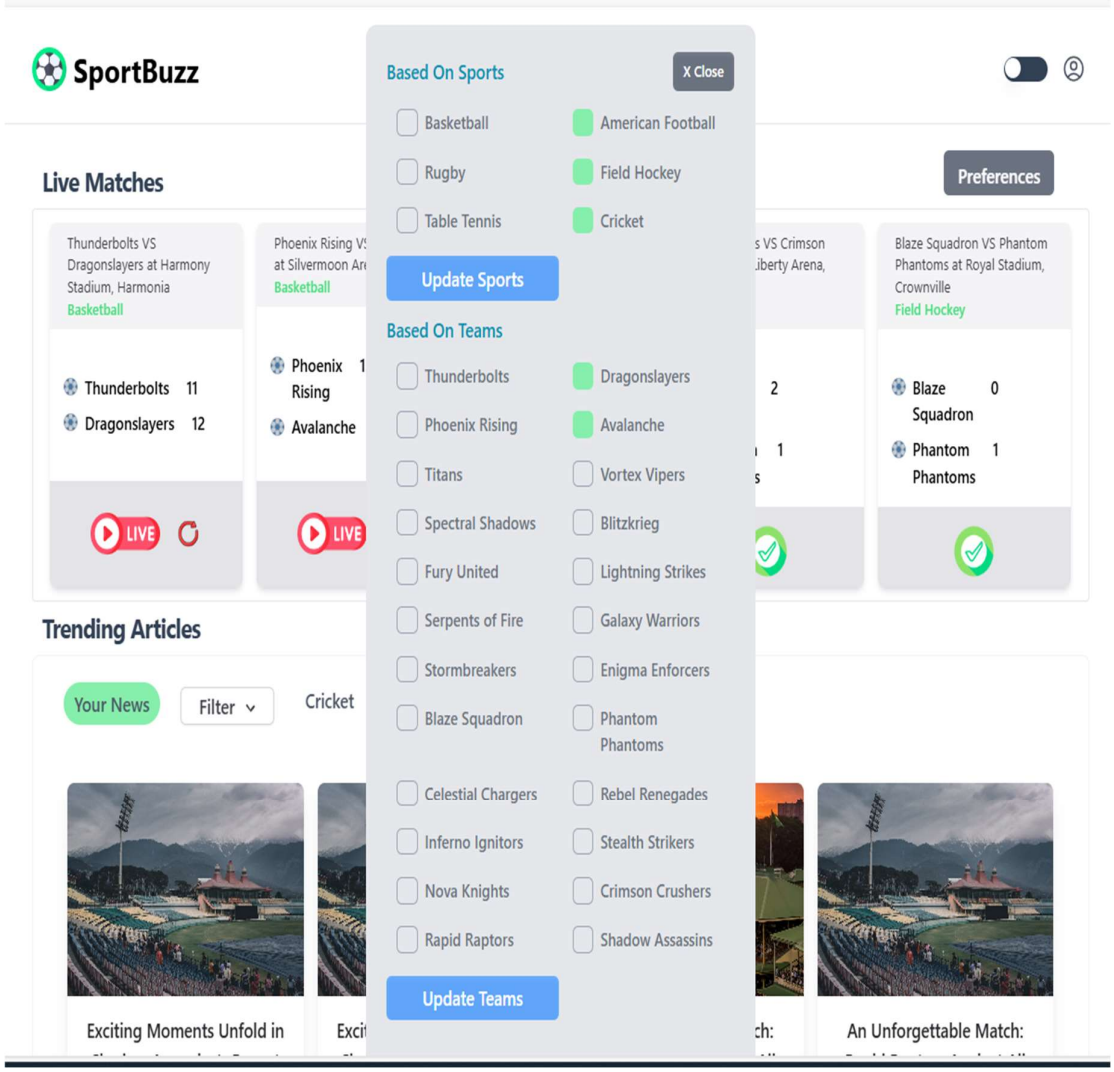
Detailed Match View:

- when a user clicks on a match, they are taken to a detailed view of that match, identified by the match's ID in the URL.
- The component displays various pieces of match information such as the match name, sport name, venue, date and time, scores for each team, and additional match details.

It also includes a scorecard and a section for match information, including teams and the match story.

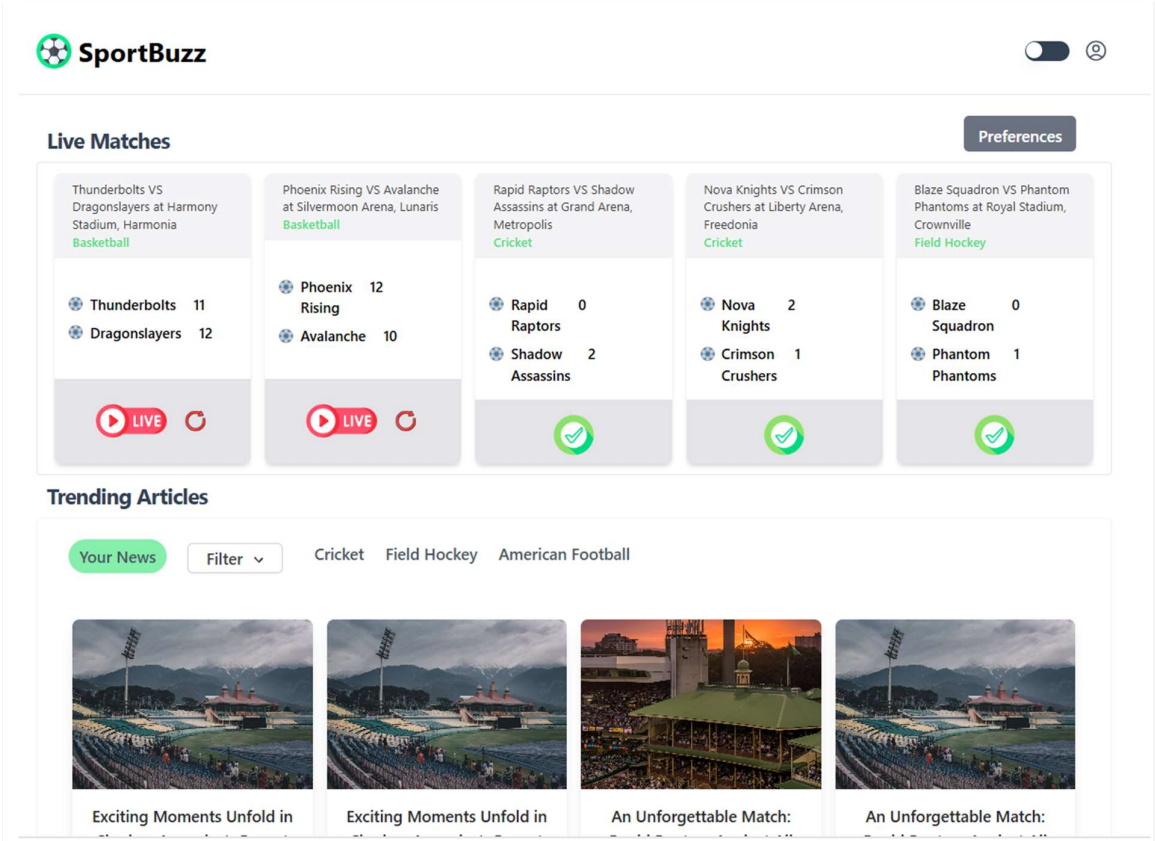
Preferences Screen:

- The preferences screen should be accessible from the landing page as a pop-up or modal dialogue.
- Users should have the ability to select the sports they want to receive news articles from.
- Users should be able to choose specific teams they are interested in and want to read articles about.

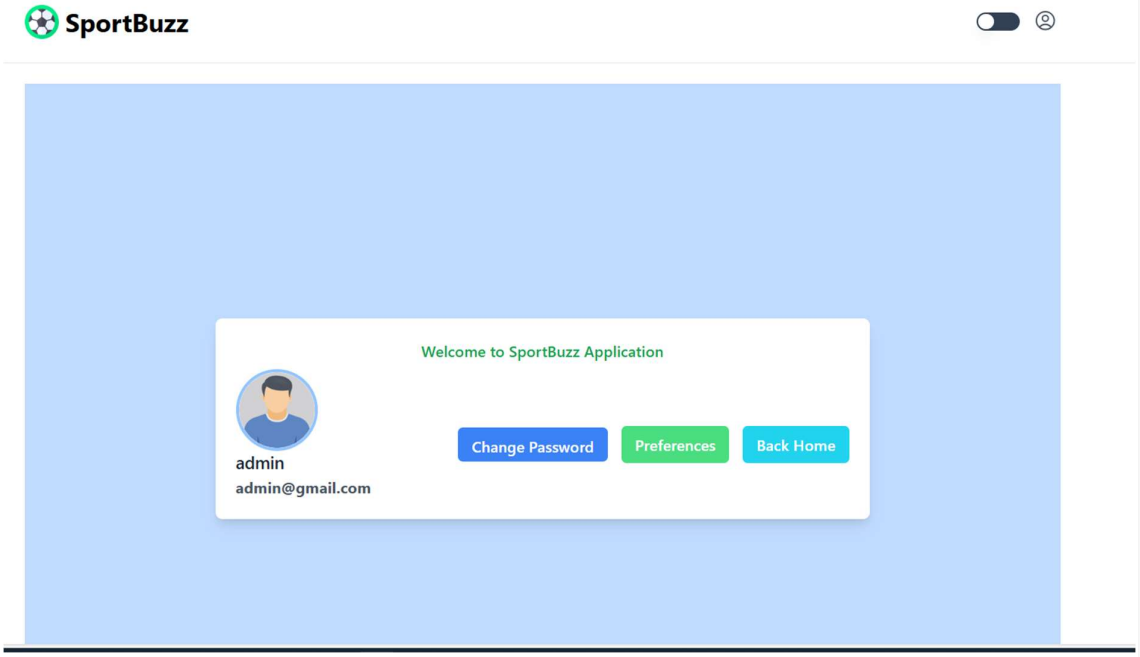


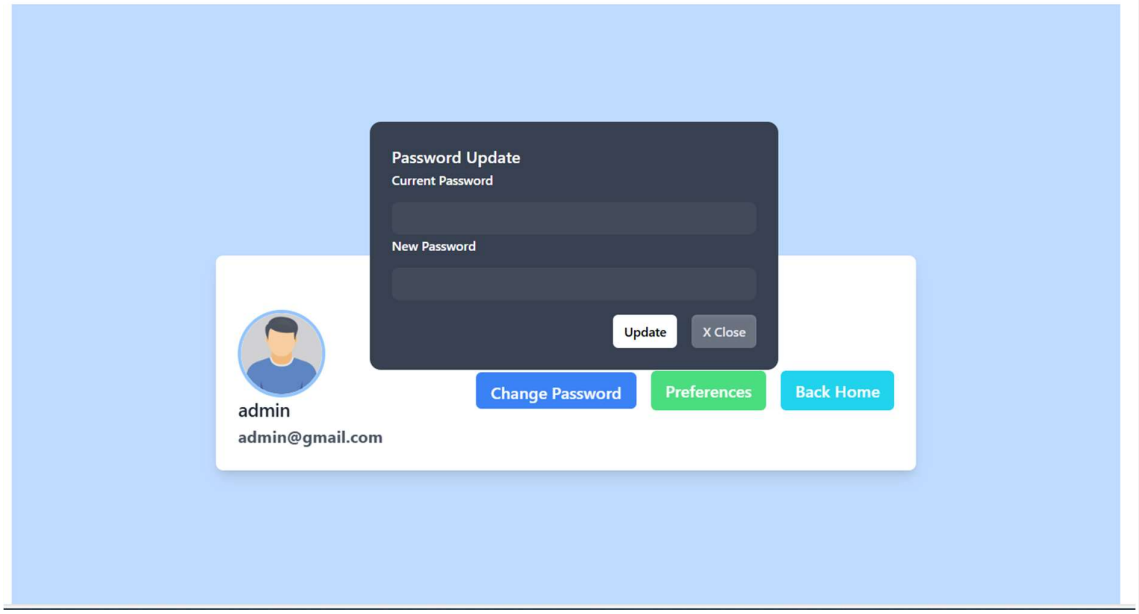
Filtering Based on User Preferences:

- When a user is logged in, the application should filter news articles based on their selected preferences.
- Only articles related to the chosen sports and teams should be displayed to the user.

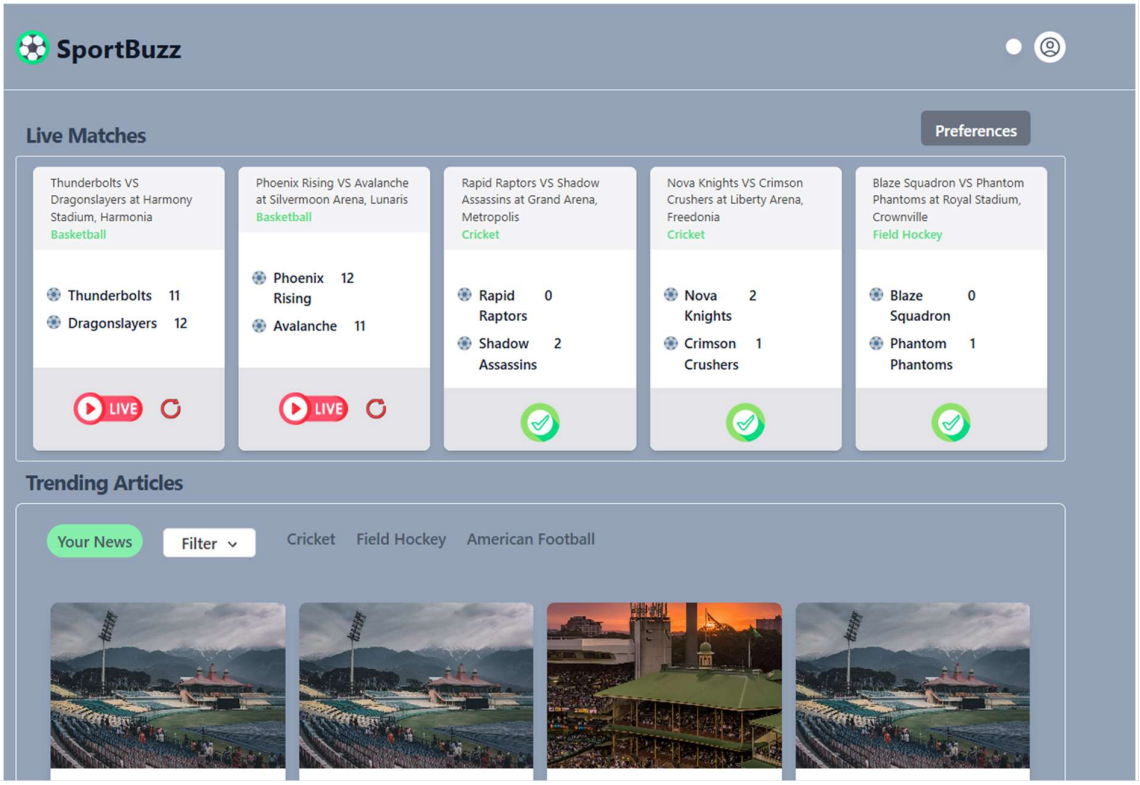


Password change and profile:




Password Update
Current Password
New Password
Update
X Close
admin
admin@gmail.com
Change Password
Preferences
Back Home

Dark theme:


SportBuzz
Live Matches
Preferences
Thunderbolts VS Dragonslayers at Harmony Stadium, Harmonia
Basketball
Thunderbolts 11
Dragonslayers 12
LIVE
Phoenix Rising VS Avalanche at Silvermoon Arena, Lunaris
Basketball
Phoenix Rising 12
Avalanche 11
LIVE
Rapid Raptors VS Shadow Assassins at Grand Arena, Metropolis
Cricket
Rapid Raptors 0
Shadow Assassins 2
Nova Knights VS Crimson Crushers at Liberty Arena, Freedonia
Cricket
Nova Knights 2
Crimson Crushers 1
Blaze Squadron VS Phantom Phantoms at Royal Stadium, Crownville
Field Hockey
Blaze Squadron 0
Phantom Phantoms 1
Trending Articles
Your News
Filter
Cricket
Field Hockey
American Football