

## **Report**

### **1. Home.jsx**

This is the main home page of the website and shows the intro video, animations, and links to different leagues like the Premier League, LaLiga, and NFL. It uses a library called Framer Motion to add smooth animations when you scroll or hover over things, and it loads pictures and videos stored in the project. It also brings in the Navbar and Footer so the top and bottom of the page look the same everywhere.

### **2. LaLiga.jsx**

This is the LaLiga page, which shows upcoming games, league standings, top scorers, predictions, and recent results. It uses React's useState and useEffect to fetch live data from the backend API. It also uses a map of team logos so each club has an official badge. The page updates automatically when data loads and shows loading messages or errors if something goes wrong. The entire layout is organized with CSS to match the reddish and orangish and gold LaLiga theme.

### **3. NFL.jsx**

This is the NFL page, showing upcoming NFL games, league standings, top players, and recent results. The page also includes a dropdown that lets users

choose how many upcoming games they want to see. The design uses a red, white, and blue theme that matches American football.

#### **4. PremierLeague.jsx**

This is the Premier League page, showing upcoming matches, predictions, standings, top scorers, and recent results. It also uses a list of official Premier League team logos, along with win/draw/loss badges that show each team's form. The page reacts to user selections, such as choosing to view the next 5, 10, or 15 matches. The layout and styling are created using the purple Premier League theme

#### **5. Footer.jsx**

This file creates the Footer at the bottom of every page. It uses React Router to let users click links to navigate to the Premier League, LaLiga, or NFL pages without refreshing the browser. The Framer Motion library is used to animate the links when you hover over them. The footer displays the site's copyright and stays consistent across all pages thanks to Components.css styling.

#### **6. Navbar.jsx**

This file builds the navigation bar at the top of every page. It shows the website logo, the site name, and links to every main page. When the screen is small, like on

a phone, the navbar becomes a hamburger menu that expands and collapses. It uses React Router for page navigation and Framer Motion for smooth animations on hover and click.

## **7. main.py (Backend)**

This Python backend file provides the API routes that the frontend reads data from, such as fixtures, tables, top scorers, and more. It receives requests from the React pages and sends back JSON responses so that the site can update with live information.

## **External Libraries Needed**

Frontend (React)

You need to install:

- React Router DOM - npm install react-router-dom
- Framer Motion - npm install framer-motion
- Vite - npm install

Backend (Python)

You need:

- FastAPI - pip install fastapi

- Uvicorn - pip install uvicorn
- Requests - pip install requests

To Run Backend:

Open your terminal inside the backend folder.

Run:

uvicorn main:app --reload

**If that doesn't work, I used: python3 -m uvicorn main:app**

To Run the Frontend:

Open your terminal inside your React project folder.

Install dependencies: npm install

Run:

**npm run dev**

**COMMANDS IN BOLD ARE THE ONES I ACTUALLY USED.**