Soccer Match Viewer – Fullstack MERN Project

1.Project Overview

Soccer Match Viewer is a full-stack web application built using the **MERN stack (MongoDB, Express.js, React, Node.js)** that fetches and displays **upcoming soccer matches** from a free sports API. Users can explore upcoming fixtures with details like teams, date/time, venue, and league.

2.Key Features

Features	Description
View Upcoming Matches	Users can view a list of upcoming English Premier League (EPL) matches.
Match Details	Displays team names, match date, time, league, and venue.
Multi-Page Navigation	Navigation across Home, Matches, About, and Contact pages.
Beautiful UI	Responsive design using custom CSS for a clean and professional look.
API Integration	Fetches real-time data from TheSportsDB API.
Fullstack MERN	Uses Express for backend routing, React for frontend, and optional MongoDB.
Modular Code	Structured into components and routes for scalability and maintenance.

3.Tech Stack

3.1.Frontend (React)

- React (Functional Components + Hooks)
- React Router DOM
- Axios for API communication
- CSS for styling

3.2. Backend (Node.js + Express)

- Express.js
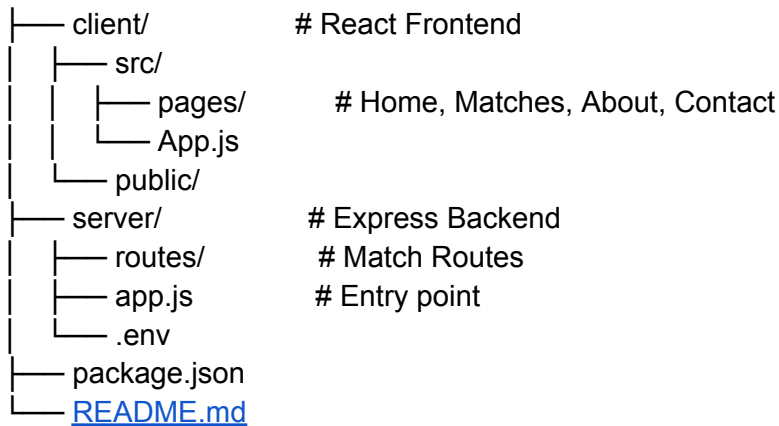- Axios (to fetch from external API)

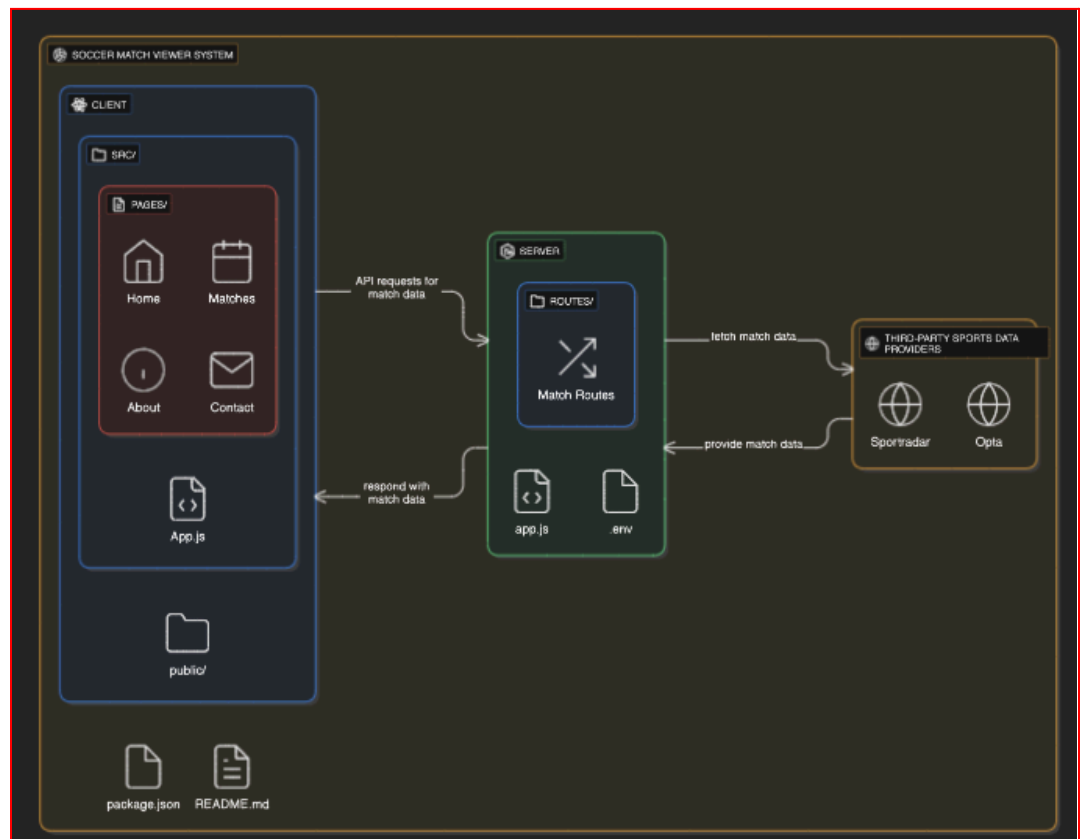● CORS + dotenv for environment configs

3.3.API Source

● TheSportsDB - Events Next for EPL

4.Folder Structure

```
soccer-match-viewer/
├── client/              # React Frontend
│   ├── src/
│   │   ├── pages/          # Home, Matches, About, Contact
│   │   └── App.js
│   └── public/
├── server/              # Express Backend
│   ├── routes/           # Match Routes
│   ├── app.js            # Entry point
│   └── .env
├── package.json
└── README.md
```

Architecture :

5. API Endpoint Used

Upcoming Matches for EPL:
https://www.thesportsdb.com/api/v1/json/123/searchteams.php?t=Arsenal

```
{
 "teams": [
  {
    "idTeam": "133604",
    "idSoccerXML": "66",
    "idAPIfootball": "42",
    "strTeam": "Arsenal",
    "strTeamShort": "Arsenal",
    "strAlternate": "The Gunners",
    "intFormedYear": "1886",
    "strSport": "Soccer",
    "strLeague": "English Premier League",
    "idLeague": "4328",
    "strStadium": "Emirates Stadium",
    "strStadiumThumb": "https://www.thesportsdb.com/images/media/team/stadium/emirates.jpg",
    "strStadiumLocation": "London, England",
    "intStadiumCapacity": "60260",
    "strWebsite": "www.arsenal.com",
    "strFacebook": "www.facebook.com/Arsenal",
    "strTwitter": "twitter.com/Arsenal",
    "strInstagram": "instagram.com/arsenal",
    "strDescriptionEN": "Arsenal Football Club is a professional football club based in London...",
    "strTeamBadge": "https://www.thesportsdb.com/images/media/team/badge/arsenal-badge.png",
    "strTeamFanart1": "https://www.thesportsdb.com/images/media/team/fanart/arsenal-fanart1.jpg",
    "strTeamBanner": "https://www.thesportsdb.com/images/media/team/banner/arsenal-banner.jpg",
    "strYoutube": "https://www.youtube.com/arsenal",
    "strLocked": "unlocked"
  }
  /* …more teams if they match the query… */
 ]
}
```

6.Possible Feature Enhancements

Enhancement	Description
User Authentication	Users can log in and mark favorite matches.
MongoDB Integration	Save user data and match preferences.
Responsive PWA	Make it installable as a progressive web app.
Countdown Timer	Show time left until the next match.
International Leagues	Dropdown to select leagues like La Liga,Serie A,etc.
Calendar View	Display fixtures in a calendar format.
Notifications	Notify users of upcoming favorite team matches.