**Project Setup Guide**

**1. Overview**

This project uses **React** for the Frontend and **Spring Boot** for the Backend **SQL Sever** for the Database.

**2. Requirements**

* **Node.js** (>= 14.x) and **npm** (>= 6.x)
* **Java Development Kit** (JDK 17)
* **Maven** to build the Backend (Maven 3.9.9 - optional).
* **IDE**:
  + Visual Studio Code (Frontend)
  + IntelliJ IDEA or Eclipse (Backend)
* **SQL Sever**

**3. Frontend Setup**

**3.1. Installation and Run**

1. **Clone the project**:
2. git clone <https://github.com/Halocau/FA\_Tools\_Ranking\_Management.git>

cd frontend

1. **Install dependencies**:

npm install

1. **Run the application**:

npm run dev

The application will run at http://localhost:3000.

1. **Build for Production**:

npm run build

**4. Backend Setup**

**4.1. Installation and Run**

1. **Clone the project**:
2. git clone <https://github.com/Halocau/FA\_Tools\_Ranking\_Management.git>

cd backend

1. **Build and run the Backend**:

mvn clean install

mvn spring-boot:run

1. **API Server** will run at http://localhost:8080.

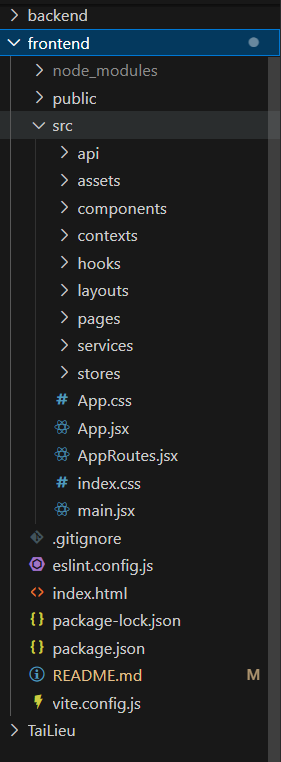
**5. Environment Variables**

Create a .env file for the Frontend:

VITE\_API\_URL=http://localhost:8080/api

A screenshot of a computer

Description automatically generated**6. Project Structure**



**8. Run Full Project**

1. **Start the Backend** .
2. **Run the Frontend**.

**9. References**

* [Spring Boot Documentation](https://spring.io/projects/spring-boot)
* [React Documentation](https://reactjs.org/)
* [Material UI Documentation](https://mui.com/)
* [Axios Documentation](https://axios-http.com/)
* [JWT Guide](https://jwt.io/)
* [Certbot Guide](https://certbot.eff.org/)