project Title : AI Code Assistant

Intro: AI Code Assistant is a full-stack web application that allows users to generate Java code snippets by describing their coding problems in natural language. It uses a frontend built with **React + Tailwind CSS (Vite)** and a backend powered by **Spring Boot**. The backend can later be integrated with the **OpenAI API** to generate intelligent code responses.

**Key Features:**

* ✅ Simple and clean UI for user interaction
* 🧾 Textarea input for describing code problems
* ⚙️ Backend endpoint that processes prompts
* 📦 Seamless communication using Axios between frontend and backend
* 🌐 CORS-enabled for localhost communication (3000 → 8080)

**Technology Stack:**

* **Frontend:**
  + React.js
  + Tailwind CSS
  + Axios
  + Vite
* **Backend:**
  + Java 21
  + Spring Boot
  + REST APIs
  + Jackson for JSON processing