DS FullStack Developer
Take-Home Assignment

Your task is to create a simple chatbot application with a React frontend and Python backend. The chatbot should provide responses to user inputs, with flexibility in how those responses are generated.

Part 1: React Frontend (60% of focus)

- Create a basic chat interface using Create React App and Tailwind CSS
- Required features:
    - Chat window showing message history
    - Message input field
    - Send button
    - Simple responsive design

Part 2: Python Backend (40% of focus)

- Create a FastAPI server with two endpoints:
    - GET `/api/health`: Health check endpoint
    - POST `/api/chat`: Accepts user message and returns a simple response
- Use predefined responses instead of LLM integration
- No WebSocket implementation required
- No authentication needed
- No persistent storage required

Submission Guidelines:

- Provide GitHub repository with:
    - Frontend code
    - Backend code
    - README with:Setup instructions