PROJECT TITLE:

Flavour Fusion: AI-Driven Recipe Blogging

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Project Overview: Flavour Fusion is a web application that generates AI-driven recipes based on user input. The project utilizes OpenAI's API to create unique recipes and incorporates a programming joke API for added engagement.

Technologies Used:

- React.js for the frontend
- Express.js for the backend
- OpenAI API for recipe generation
- Axios for HTTP requests
- Bootstrap and Tailwind CSS for UI styling
- Official Joke API for fetching programming-related jokes

Project Structure:

```
flavour-fusion/
├── backend/
│   ├── server.js
│   ├── .env
│   ├── package.json
├── frontend/
│   ├── src/
│   │   ├── components/
│   │   │   ├── FlavourFusion.js
│   │   ├── App.js
│   │   ├── index.js
│   ├── public/
│   ├── package.json
├── README.md
```

Setup Instructions:

1. Clone the repository:
2. git clone https://github.com/your-username/flavour-fusion.git
3. Navigate to the backend and install dependencies:
4. cd flavour-fusion/backend
5. npm install
6. Create a .env file in the backend directory and add:
7. OPENAI_API_KEY=your_openai_api_key_here
8. Start the backend server:

9. node server.js

10. Navigate to the frontend and install dependencies:

11. cd ../frontend

12. npm install

13. Start the frontend:

14. npm start

Backend (server.js) Functionality:

- Accepts a POST request to /generate-recipe with topic and wordCount.

- Calls OpenAI's API to generate a recipe.

- Returns the generated recipe to the frontend.

Frontend (FlavourFusion.js) Functionality:

- Takes user input (recipe topic and word count).

- Sends a request to the backend for recipe generation.

- Displays the generated recipe and a programming joke.

Possible Enhancements:

- Improve UI with more styling.

- Add user authentication.

- Implement recipe saving and sharing functionality.

- Integrate image generation for recipe visualization.

Contributors:

- Pasavala Sravanthi

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