Project Proposal

Description
The Recipe Project is a web application that allows users to input ingredients they already have at home and receive a list of possible recipes they can prepare. Additionally, users will be able to generate a shopping list for selected recipes. This application aims to simplify meal planning, reduce food waste, and enhance the cooking experience.

 Stack
- **Front-End:** React, React Router, Axios
- **Back-End:** Node.js, Express
- **Database:** PostgreSQL
- **Other Tools/Technologies:** RESTful API, JSON Web Tokens (JWT) for authentication, CSS for styling, and possibly a third-party recipe API (e.g., Spoonacular or Edamam).

Focus
This project will be an evenly focused full-stack application, with significant emphasis on seamless integration between the front-end user interface and the back-end logic.

Type
This will be a responsive website designed for desktop and mobile browsers, ensuring accessibility and ease of use across devices. If it does well, I would like to consider turning it into a mobile application.

Goal
The goal of this project is to:
1. Provide users with creative cooking ideas based on ingredients they already have.
2. Offer a simple and intuitive way to create and organize shopping lists from selected recipes.
3. Reduce food waste by encouraging users to utilize ingredients they might otherwise discard.

Users
- **Primary Demographic:**
  - Home cooks of all skill levels.
  - Busy individuals or families looking to simplify meal planning.

  - Environmentally-conscious users aiming to reduce food waste.
- **Secondary Demographic:**
  - Students or young professionals with limited cooking experience or resources.

Data
- **Recipe Data:**
  - A third-party recipe API such as Spoonacular or Edamam will be used to fetch recipe information, including ingredients, instructions, and nutritional details.
  - Custom user recipes can be added and stored in the database.
- **Shopping List Data:**
  - Recipes selected by the user will generate dynamic shopping lists stored in the database and retrievable for future use.
- **User Data:**
  - User accounts will include authentication, saved ingredients, saved recipes, and shopping lists.
- **Collection Methods:**
  - API calls for fetching external recipe data.
  - Form inputs for users to manage their own ingredients, recipes, and lists.