

Team Name: JK Team

Team member name: Jingbo Wang, Chengkai Yang

App Purpose

The Smart Recipe Recommender is designed to help users make the most out of their available ingredients by recommending recipes based on what's already in their fridge or pantry. Users can enter the ingredients they currently have, and the app will suggest recipes that can be made with those ingredients, along with personalized recipe recommendations based on the user's preferences and dietary restrictions. The app aims to reduce food waste, save time in meal planning, and provide a customized cooking experience.

Main Features

1. Ingredient-Based Recipe Recommendations:

Users input the ingredients they have, and the app suggests a list of recipes that match those ingredients.

2. Personalized Preferences:

Users can set personal preferences, dietary restrictions, and favorite cuisines to receive tailored recipe suggestions.

3. Step-by-Step Cooking Instructions:

Each recipe comes with detailed steps, making it easy for users to follow along while cooking.

4. Offline Functionality:

Recipes and user data are cached locally, allowing users to browse previously viewed recipes even without an internet connection.

5. Push Notifications:

The app sends notifications to remind users of new recipes that fit their preferences (or seasonal ingredients).

6. Usage Analytics:

Firebase Analytics is used to track user interactions, helping refine recipe recommendations and improve the app based on user behavior.

Target Audience

- **Busy Individuals:**
 - People with limited time who want to find recipes quickly based on what they already have.
- **Home Cooks and Food Enthusiasts:**
 - Those looking to explore new recipes without the need for extensive grocery shopping.
- **People with Dietary Restrictions:**
 - Users who need to filter recipes based on allergies, dietary preferences (e.g., vegetarian, vegan), or specific health goals.