

Team 32 Project Charter

Recipe Remix

Team Members:

Michael Li, Ryan Leonard, Khoa Raisr, Andree Kolliiegbo, Anh Nguyen, Tim Chou

Problem Statement:

Despite the availability of numerous recipe platforms, many individuals often find themselves with random ingredients in their pantry and no clear idea of how to creatively combine them into a delicious meal. This challenge, coupled with various dietary restrictions and unique personal tastes, calls for a personalized solution. Recipe Remix aims to address this gap by offering users a platform where they can input available ingredients, receive customized recipe suggestions, and even "remix" these suggestions according to their preferences. Unlike existing platforms, Recipe Remix emphasizes customization and community contribution.

Project Objectives:

- Develop a platform that can suggest recipes based on user-provided ingredients.
- Incorporate a feature allowing users to adjust ("remix") these recipes according to personal tastes or available ingredients.
- Ensure the platform is adaptable to dietary restrictions and personal preferences.
- Foster a community where users can share, rate, and provide feedback on recipes and their remixes.
- Develop a feature that generates shopping lists based on selected recipes, potentially integrated with popular local grocery shopping apps for ingredient procurement or home delivery

Stakeholders:

Users: Individuals looking for customized recipe suggestions based on available ingredients and dietary preferences.

Developers: Michael Li, Ryan Leonard, Khoa Raisr, Andree Kolliiegbo, Anh Nguyen, Tim Chou

Project Manager: Yu Shi

Project Owners: Michael Li, Ryan Leonard, Khoa Raisr, Andree Kolliiegbo, Anh Nguyen, Tim Chou

Deliverables:

- A visually engaging front-end using React JS that allows users to drag and drop ingredient icons into a virtual cauldron, view real-time recipe suggestions as ingredients are added, and explore full recipe details, including preparation instructions, serving size, and preparation time

- A system built on Node JS that facilitates user registration and profile management (including dietary restrictions, favorite cuisines, saved recipes, and past ingredient searches)
- A backend Recipe Matching Engine built on Node JS
- A NoSQL database (Firestore) to handle storing user profiles as well as dietary preferences, allergies, virtual pantries, and other functionalities