

COMP 4768 Project Proposal

Team Members and GitHub accounts:

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App name: Spare Spoon

App description: Spare Spoon transforms the way home cooks approach their meals by offering recipe recommendations based on the ingredients they already have at hand. By focusing on utilizing available ingredients, Spare Spoon aims to reduce food waste, save users money, and introduce them to a variety of dishes they might never have tried before.

Target audience:

Spare Spoon is designed for a wide audience, from college students wanting to make the most of limited ingredients, to families aiming to reduce food waste and stretch their grocery budget, to seasoned cooks looking for new inspiration.

Base key features:

- **Authentication and Data Security:**
 - a. Each user will have authentication to secure and protect their data.
- **Integration of OPEN AI to provide recipe suggestions.**
 - a. Users can regenerate suggestions if they do not like the initial recommendation.
- **Favorite Recipes:**
 - a. Users can mark specific recipes as favorites.
 - b. Filter functionality to view recipes by favorites.
- **User Profile Management:**
 - a. Users can edit and view their personal information in the profile section.
- **Recipe Customization:**
 - a. Users can edit existing recipes.
 - b. Option to add images to recipes for customization and personalization.

Additional features under consideration (A few of these will implemented):

1. Users can download recipes as PDFs.
2. Link to available videos online for a particular recipe.
3. Filtering using the text for recipes.
4. Adding new custom recipes.
5. Auto-generating a shopping list for a recipe.
6. Community chat center where users can talk to each other.

Technical Stack:

UI Development: Flutter | Figma

User Management: FirebaseAuth

Database: Firestore (To store details of items and user profiles)

Image Storage: Firebase Cloud Storage (For storing item images)

Messaging: Firebase Messaging (For user-to-user communication)