CS 307 Project Charter
Team 30: *ReciFeast*

Team Members
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Problem Statement

It is hard to think of recipes to make from the groceries you have in your house. Even if you do come up with a recipe you want to make, you often don't have all of the ingredients to make it. This app will not only suggest recipes for you to make, but also help you gather the remainder of the ingredients by either adding it to the common grocery list between members of the house or requesting ingredients from nearby households. Although apps like SuperCook suggest recipes to you based on ingredients, our app will also help you collect all the ingredients and maintain a stock of your groceries in the house.

Project Objectives

1. Build an application to suggest recipes by letting the user choose ingredients from the available house stock.
2. Create an invite system with the ability to add other users to your house/room using their usernames.
3. Allow members of a household to maintain a common real time editable grocery list, visible to all the members of the household.
4. Update the house stock when an item is ticked off the grocery list and updates the grocery list when an item is marked as over.
5. Set up a platform for households to request ingredients from other households.
6. Suggest users to connect with other app users in close proximity.
7. Allows users to see the calorie and nutrition intake of the different recipes.

Stakeholders

Project Owners: Aditya Kotalwar, Alisha Lakkad, Priyansh Shishodia, Rushank Jhanjaria
Developers: Aditya Kotalwar, Alisha Lakkad, Priyansh Shishodia, Rushank Jhanjaria
Project Coordinator: Tara Williams
Users: People who want to maintain a stock of their groceries and get suggestions on the recipes they can make using the available groceries.

Project Deliverables

1. Android Studio will be used for the development of the app and making its front end.
2. Firebase and Node JS will be used to store and manage user data and will also be used for network requests.
3. NoSQL databases will be used to maintain individual and group profiles
4. NotificationCompat library will be used in Android Studio to allow the usage of notifications when new items are added to stock or when someone requests an ingredient from you.
5. Use Firebase for real time updates for the grocery list.
6. Spoonacular Recipe Search API will be used to get recipes for a specific combination of ingredients.
7. Spoonacular Nutrition Analysis API will be used to provide the nutritional breakdown of the recipe you choose.
8. Google maps platform for Android will be used access user's location in order to find users closeby which will allow the exchange of goods and recipes between them.