CSCI 4100u - Mobile Devices
Final Project Proposal

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Social Media Recipe App

Overview of Project

This project intends to provide a mobile application that allows users to create, share, and organize recipes in the format of social media. The app will serve as a platform for people to interact and to create a library of recipes, which incorporate various course content and themes. It incorporates features such as dialogs, multiple screens, snack bars, notifications, local and cloud storage, HTTP queries, and more that fit with the abilities acquired in this course.

List of Group Members and Their Responsibilities:

Member 1: Vishwaajeeth Kamalakkannan

Role: Project Manager, UI/UX Designer and Developer
Responsibilities: Project coordination, task delegation, ensuring deadlines are met, and overall project supervision. Designing the user interface, and Implementing key app functionalities, such as data synchronization.

Member 2: Vrund Patel

Role: UI/UX Designer and Developer
Responsibilities: Designing the user interface, creating mockups, and ensuring the app's visual appeal. Implementing key app functionalities.

Member 3: Zhi quan Peng

Role: Developer and Functionality
Responsibilities: Implementing the app's functionality, integrating features, and coding the application.
List of Features and Functional Requirements

Basic Functional Requirements:

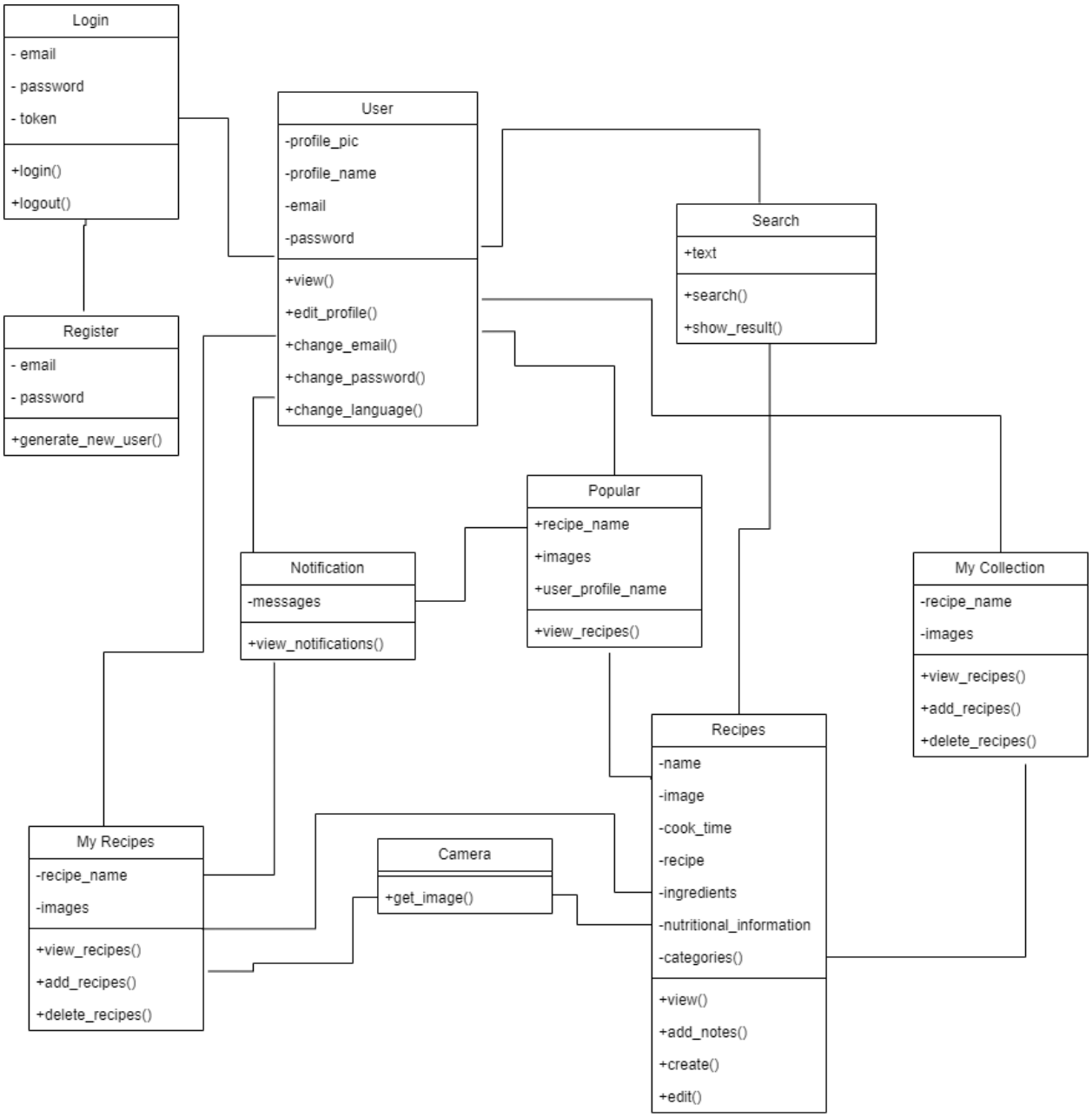
1. **Dialogs and Pickers for User Input:**
    a. Purpose: Dialogs and pickers are used for capturing user input, such as adding a new recipe, editing recipe details, or selecting ingredients. Dialogs can include forms for users to input information.
    b. Usage: When a user wants to add a new recipe, they will trigger a dialog or picker to enter recipe details, ingredients, and steps.
2. **Multiple Screens and Navigation for a Seamless User Experience:**
    a. Purpose: Multiple screens and navigation provide a structured and user-friendly experience. Users can explore various sections of the app seamlessly, such as viewing their recipe collection, or searching for recipes.
    b. Usage: Users can switch between screens to browse recipes, manage their profile, and navigate through different app sections.
3. **Snack Bars for User Feedback:**
    a. Purpose: Snack bars are used to provide unobtrusive feedback to users after they perform actions. They convey messages like "Recipe saved successfully" or "Error in updating recipe" for immediate user awareness.
    b. Usage: Snack bars are displayed at the bottom of the screen after actions like saving a recipe, updating details, or error notifications.
4. **Notifications to Keep Users Updated on Recipe Changes:**
    a. Purpose: Notifications are essential for informing users about updates related to their recipes, or other important activities within the app. They ensure that users are aware of changes even when they are not using the app.
    b. Usage: Users will receive notifications when another user shares a recipe, saved recipes, or when new recipes are added to a shared category.
5. **Local Storage (SQLite) for Storing User-Specific Data:**
    a. Purpose: Local storage is used to store data locally on the user's device. In the Social Media Recipe App, it will store user-specific information like their profile details, favorite recipes, and personal settings.
    b. Usage: Local storage ensures that users can access their own data even when offline and enables a faster user experience.
6. **Cloud Storage (Firestore) for Recipe Storage:**
    a. Purpose: Cloud storage is used to store recipes and related data in a central database accessible to all users. It ensures data synchronization.
    b. Usage: Users can access recipes stored in the cloud. Changes made by one user are instantly reflected for others.
7. **HTTP Requests for Real-Time Data Synchronization:**
    a. Purpose: HTTP requests are used to fetch and send data to and from the cloud database (Firestore). This allows for real-time synchronization of recipes and ensures that all users have the most up-to-date information.

b. Usage: Whenever a user adds a new recipe, or updates recipe details, HTTP requests are made to update the central database and keep data synchronized across all devices.

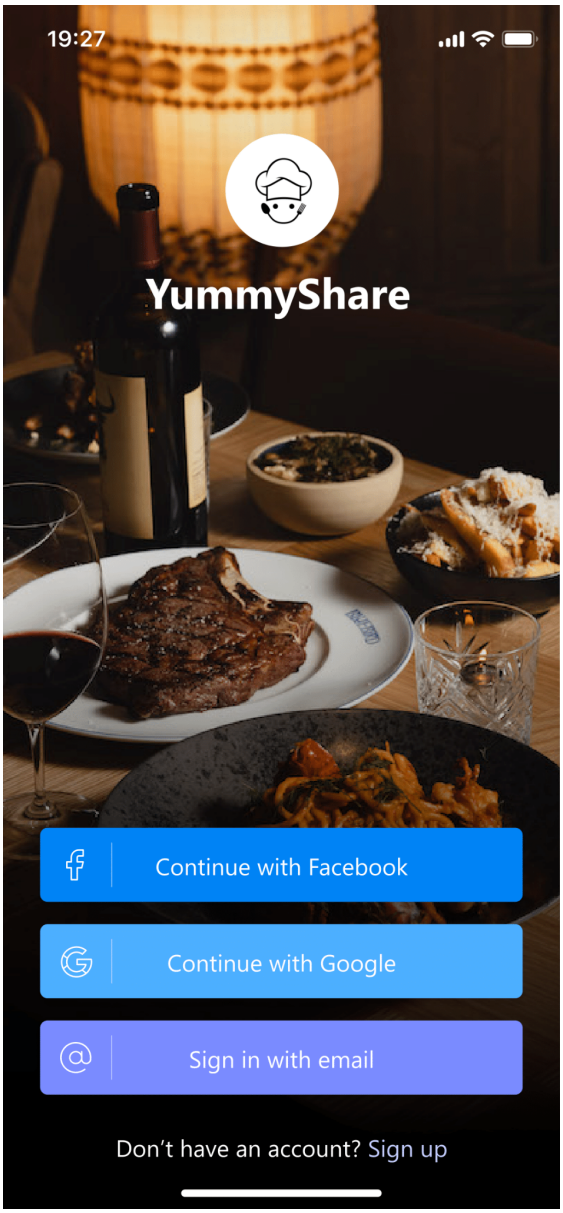
Additional Features:

1. **Data Tables for Structured Recipe Information:**
    a. Purpose: Data tables are used to present recipe details in a structured and organized format, making it easier for users to read and understand recipes.
    b. Usage: Users can view recipes in a tabular format, which includes ingredients, steps, cooking time, and more for better recipe comprehension.
2. **Charts to Visualize Nutritional Data:**
    a. Purpose: Charts provide a visual representation of nutritional information in recipes. Users can quickly assess the nutritional value of a recipe.
    b. Usage: Users can view charts that show the breakdown of calories, protein, fat, and other nutritional components in recipes.
3. **Camera Integration for Adding Photos to Recipes:**
    a. Purpose: Camera integration enables users to capture and attach photos to their recipes. This enhances the visual appeal and understanding of recipes.
    b. Usage: When adding or editing a recipe, users can use the camera to take photos of the prepared dish and include them in the recipe details.
4. **User Login:**
    a. Purpose: The User Login feature allows registered users to securely log into their accounts, providing a personalized and secure experience within the app. It serves as a gatekeeper to access user-specific data and functionalities.
    b. Usage: Users enter their registered email address and password to log in. Upon successful login, users gain access to their personalized dashboard, including their recipe collection, and profile settings. User Login ensures data privacy and security by verifying user credentials.
5. ***OPTIONAL* Internationalization for Multilingual Support:**
    a. Purpose: Internationalization allows the app to be accessible to users in different languages. Users can switch between languages for a more inclusive experience.
    b. Usage: Users can select their preferred language within the app, making it available in multiple languages to cater to a diverse user base.
6. ***OPTIONAL*Geolocation for Finding Recipes Based on User Location:**
    a. Purpose: Geolocation allows users to discover recipes based on their current location, such as finding recipes that are popular in their area or using local ingredients.
    b. Usage: Users can enable geolocation to receive recipe recommendations or search for recipes based on their geographical location.

Code Design - UML



Mockup of User Interface



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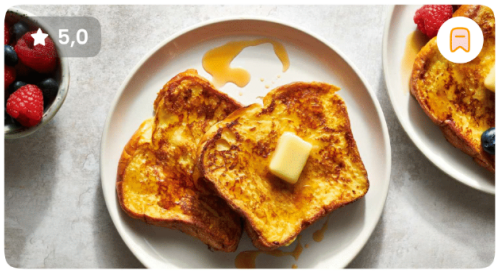

How to make french toast

By Gordon Ramsay

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By Selena Gomez

Easy oatmeal recipe

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How to make french toast

4,5 (300 Reviews)

Gordon Ramsay
United Kingdom

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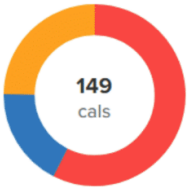
Net Carbs	16.3 g
Fiber	0 g
Total Carbs	16.3 g
Protein	5 g
Fats	7 g



Quantity: 1

Serving Size: slice

Ingredients

5 items

Bread	200g
Eggs	200g
Milk	200g

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Create recipe

Bento lunch box ideas for work

Serves	01
Cook time	45 min

Ingredients

Beef	250gr
Rice	150gr
Item name	Quantity

+ Add new Ingredient

Save my recipes

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Notifications

All | Unread | Read

Today

New recipe!
Far far away, behind the word mountains, far from the countries.

Don't forget to try your saved recipe
Far far away, behind the word mountains, far from the countries.

Yesterday

New recipe!
Far far away, behind the word mountains, far from the countries.

You're all set!

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My profile

Edit profile

Gordon Ramsay

Welcome to the page of the best
british chef

Recipe	Followers	Following
3	14K	120

Saved | Recipe