**Introduction**

* 1. **Application Overview**

**Application Name:** Frisp [**GitHub**](https://github.com/MuhammadSabah/Frisp#screenshots)

**Overview:**

The social networking application for food recipes is a mobile-based platform that allows users to share their favorite recipes and discover new recipes from other users. The application enables users to create and manage their profile, share recipes with other users, search for recipes based on different categories, and interact with other users through social features such as likes and comments. Users can also chat with each other and share useful food related information.

**Key Features:**

* User Account Creation: The application allows users to create their own profile, where they can manage their personal information, profile picture, and recipe collection.
* Recipe Sharing: Users can share their favorite recipes with others, including the recipe name, description, ingredients, and instructions. Users can also upload photos of their completed dishes.
* Recipe Search: Users can search for recipes based on different criteria such as recipe name, ingredients, cuisine type, and dietary preferences.
* Social Features: The application allows users to interact with other users by liking, commenting, and replying on their recipe posts, or by following other users to receive updates on their new recipes.

**Tech Stack:**

* Frontend: The application's frontend is developed using modern mobile technologies such as Flutter, and Dart for the programming language.
* Backend: The backend of the application is developed using BaaS such as Firebase which provides the following services (Firebase Firestore, Firebase Cloud Storage, Firebase Auth)

**Target Audience:**

The social networking application for food recipes is targeted towards food enthusiasts, home cooks, and anyone who enjoys exploring new recipes and cuisines. The application could also be of interest to nutritionists, dietitians, and food bloggers.

**Summary:**

In summary, the social networking application for food recipes is a mobile-based platform that enables users to share and discover new recipes, interact with other users.

* 1. **Scope**

The scope of the application testing for a social networking application for food recipes would include all of the features and functionality of the application. This would include user account creation, recipe sharing and viewing, search functionality, social interactions (such as likes, comments, and replies), and any other features that are part of the application. The testing should cover different scenarios and use cases to ensure that the application is working correctly and is user-friendly.

* 1. **Purpose**

The purpose of the application testing is to ensure that the social networking application for food recipes is functioning correctly, and that it meets the needs of the users. The testing should verify that the application is easy to use, that it provides the expected functionality, and that it is performing well under different conditions. Additionally, testing should ensure that the application is secure, reliable, and scalable, so that it can accommodate the growing user base and handle any potential security threats.

**REQUIREMENTS**

**2.1 Functional Requirements**

1. User account creation:

* Verify that users can successfully create a new account.
* Verify that users are prompted to provide required information during account creation, such as a valid email address and a secure password.
* Verify that the user is able to edit their profile information after account creation.

2. Recipe sharing and viewing:

* Verify that users can share a new recipe with the application.
* Verify that users can view a recipe's name, description, ingredients, and instructions.
* Verify that the recipe's image is displayed correctly.
* Verify that users can edit or delete their own recipes.

3. Recipe search:

* Verify that users can search for recipes based on various criteria such as recipe name, ingredients, cuisine type, and dietary preferences.
* Verify that the search results are accurate and relevant to the search criteria.

4. Social interactions:

* Verify that users can like and comment on recipes.
* Verify that users receive notifications for any social interactions on their recipes.
* Verify that users can follow other users and receive updates on their new recipes.

5. Error handling:

* Verify that users receive appropriate error messages for any actions that are not permitted, such as attempting to delete another user's recipe.
* Verify that the application handles errors gracefully, such as displaying a friendly error message instead of a technical error message.

**2.2 Non-functional Requirements**

Scalability Testing: Verify that the application can handle a growing number of users, recipes, and interactions without a significant decrease in performance. Test the application's ability to scale horizontally and vertically to handle increased traffic.

Availability Testing: Ensure that the application is available to users at all times, even during peak usage hours or when there is a high load on the server. This includes testing for server downtime, network connectivity issues, and any other potential problems that could affect the application's availability.

Reliability Testing: Verify that the application is reliable and stable, with no unexpected crashes or system failures. Test the application's ability to recover from failures and ensure that data integrity is maintained.

Maintainability Testing: Evaluate the application's maintainability and ease of updates. This includes testing the application's ability to accommodate changes to the database schema, application code, or user interface.

Performance Efficiency Testing: Test the application's resource consumption, such as CPU, memory, and network usage, to ensure that the application is optimized for performance and efficiency.

**TESTING STRATEGY**