Requirements and Solution Document

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0.01 Business Problem Statement

Cooking enthusiasts and home chefs often rely on online platforms to find and manage their recipes. However, inconsistent internet access, cluttered online recipe formats, and the lack of personalized storage make it difficult to organize and retrieve recipes conveniently. Many users desire a clean, offline solution where they can create, view, and manage their own collection of recipes, including ingredients, preparation steps, and images, all without depending on an internet connection.

Currently, there is a gap in simple, offline, user-friendly recipe management apps that offer this level of personalization and ease of use.

0.02 Success Criteria

1. The application must work fully offline with no dependency on internet access after installation.

2. Users should be able to add, edit, and delete recipes with ingredients, steps, and images.

3. Recipes must be stored locally on the device using persistent storage.

4. The user interface should be clean, intuitive, and accessible to non-technical users.

5. The app should allow users to search and filter through their stored recipes efficiently.

6. The application must be stable across a range of Android/iOS devices.

7. The app should load quickly and consume minimal system resources.

8. Users must be able to view their stored content even after restarting the app.

0.03 Project Scope

In Scope:

1. Local storage functionality for storing recipes (text, images, and preparation steps).

2. Feature to add, edit, and delete recipes.

3. Search and filter functionality for recipes by name or ingredients.

4. Offline access to all stored recipes.

5. Responsive UI design compatible with various screen sizes.

6. Support for storing images associated with each recipe.

7. Basic data validation for inputs (e.g., empty fields).

8. Local storage implementation using SQLite, Hive, or SharedPreferences.

9. Export functionality for sharing recipes as PDFs (if planned).

10. Light/dark theme toggle (optional, if included).

Out of Scope:

1. Cloud sync or user account functionality.

2. Real-time collaboration or recipe sharing features.

3. Integration with online recipe APIs.

4. Ads or monetization features.

5. Multi-language support (unless otherwise required).