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## **Prerequisite Document**

### **Title: Vidhi's Kitchen**

#### **Problem Statement**

Traditional methods of discovering and managing recipes often require searching multiple sources, making it inconvenient for users to find, save, and follow their favorite recipes. The need arises for a comprehensive, user-friendly digital platform to explore, save, and cook recipes efficiently.

#### **Description**

Vidhi's Kitchen is a Flutter-based app designed to provide users with a vast collection of recipes, manage their personalized cookbook, and access step-by-step cooking instructions with ease.

#### **Technology Stack**

- Frontend: Flutter
- Backend: Firebase (for authentication and data storage)
- Additional Libraries: Providers, Shared Preferences (for local storage)

#### **Features**

1. User Authentication
  - Secure login and logout using Firebase Authentication
  - Role-based access for users and administrators
2. Recipe Browsing and Management
  - Search and browse recipes by cuisine, ingredients, or category
  - Save favorite recipes to a personalized cookbook
3. Step-by-Step Cooking Instructions
  - View detailed recipes with ingredient lists and preparation steps
  - Access nutritional information for each recipe
4. Wishlist and Personalized Recommendations
  - Add recipes to a wishlist for future cooking
  - Get personalized recipe recommendations based on preferences
5. Offline Access
  - Download recipes for offline use
  - Sync saved recipes and cooking progress across devices

## **Conclusion**

Vidhi's Kitchen provides a seamless and efficient platform for food lovers to explore, save, and cook delicious meals digitally. By integrating features like personalized recommendations, offline access, and a user-friendly interface, the app enhances the cooking experience and simplifies recipe management.