Specification Document

Project name: Cooking instruction application: LetHimCook

**Software Requirement Specification (SRS) for Cooking Guide Application**

**1. Introduction**

**1.1 Purpose**

This document outlines the functional and non-functional requirements for the Cooking Guide Application, a platform designed to provide users with cooking instructions and a social network for cooking enthusiasts.

**1.2 Document Conventions**

This document follows IEEE 830 standards for Software Requirement Specification (SRS).

**1.3 Intended Audience and Reading Suggestions**

This document is intended for developers, project managers, testers, and stakeholders involved in the development of the Cooking Guide Application.

**1.4 Product Scope**

The application enables users to:

* Discover and share recipes.
* Follow step-by-step cooking instructions.
* Interact with other cooking enthusiasts.
* Manage personal recipe collections.
* Purchase cooking ingredients online (future enhancement).

**2. Overall Description**

**2.1 Product Functions**

* User Registration & Authentication
* Recipe Browsing & Search
* Step-by-Step Cooking Instructions
* Recipe Upload & Sharing
* Social Interaction (Likes, Comments, Followers)
* Ingredient Shopping Integration (Future Scope)

**2.2 User Classes and Characteristics**

* **General Users**: Can browse, search, and follow recipes.
* **Registered Users**: Can upload, save, and comment on recipes.
* **Content Creators**: Can create and monetize exclusive content.
* **Administrators**: Manage platform content and users.

**2.3 Operating Environment**

* **Platforms**: Android, iOS, Web
* **Database**: PostgreSQL / Firebase
* **Hosting**: AWS / Google Cloud

**2.4 Design and Implementation Constraints**

* The system must support multiple languages.
* Should handle high traffic and concurrent users.
* Secure authentication using OAuth 2.0 or JWT.

**2.5 Assumptions and Dependencies**

* Internet connectivity is required for real-time features.
* Third-party API for ingredient shopping integration.

**3. Specific Requirements**

**3.1 Functional Requirements**

**3.1.1 User Management**

* Users can register and log in using email or social accounts.
* Users can update their profile information.
* Users can follow/unfollow other users.

**3.1.2 Recipe Management**

* Users can browse and search for recipes by category, ingredients, or difficulty.
* Users can upload recipes with images, videos, and instructions.
* Users can edit or delete their own recipes.

**3.1.3 Cooking Instructions**

* Recipes must have step-by-step instructions.
* Users can watch video tutorials.
* Users can set timers for cooking steps.

**3.1.4 Social Features**

* Users can like, comment on, and share recipes.
* Users receive notifications for interactions.
* Users can save favorite recipes.

**3.1.5 Shopping & Ingredient Integration (Future)**

* Users can add ingredients to a shopping list.
* Users can purchase ingredients through partner stores.

**3.2 Non-Functional Requirements**

* **Performance**: 50,000 initial users and growing in the future
* **Security**: All user data must be encrypted.
* **Usability**: Intuitive UI for all age groups.
* **Scalability**: Support future feature expansions.

**4. Appendices**

* API Documentation (to be defined in a separate document)

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* User Flow Diagrams

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* UI Wireframes

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