LemmeDoItForU

LemmeCook

Vision Document
Version <1.0>

Revision History

Date	Version	Description	Author
<05/06/2024>	1.0	First version of Vision Document	LemmeDoItForU Team

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Vision (Small Project)	Date: <05/06/2024>
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Vision (Small Project)

1.   Introduction

The purpose of this document is to gather, analyze, and define the high-level needs and features of the **LemmeCook** system. This system aims to address the lack of a convenient, unified platform for discovering, sharing, and discussing recipes with an AI assistant that understands dietary needs and preferences. The primary users — cooking enthusiasts, home cooks, and individuals seeking dietary-specific recipes — face inefficiencies in finding appropriate recipes, difficulties in sharing personalized recipes, and a lack of intelligent suggestions for balanced nutrition or specific dietary requirements. The **LemmeCook** application will provide an efficient solution by offering a comprehensive recipe database, personalized AI-powered suggestions, and integrated sharing features, thereby fulfilling these identified needs. Detailed explanations of how the LemmeCook system addresses these needs are provided in the use-case and supplementary specifications sections.

1.1   References

Introduction

2.   Positioning

2.1   Problem Statement

The problem of	lacking a convenient, unified platform for discovering, sharing, and discussing recipes with an AI assistant that understands dietary needs and preferences.
affects	cooking enthusiasts, home cooks, and individuals looking for dietary-specific recipes.
the impact of which is	inefficiency in finding appropriate recipes, difficulty in sharing personalized recipes, and a lack of intelligent suggestions for balanced nutrition or specific dietary requirements.
a successful solution would be	an application that allows users to easily find and share recipes, receive intelligent suggestions from an AI chatbox, and cater to specific dietary needs.

2.2   Product Position Statement

For	cooking enthusiasts and home cooks.
Who	need a platform to find, share, and get intelligent suggestions for recipes.
The (product name)	LemmeCook application.
That	is a recipe sharing and AI-powered suggestion platform which offers personalized and dietary-specific recipe suggestions.
Unlike	other basic recipe apps such as: webnauan.vn, kokotaru.com,…
Our product	integrates an AI chatbox to provide tailored recipe recommendations and allows for easy sharing and discovery of recipes.

3. Stakeholder and User Descriptions

3.1 Stakeholder Summary

Name	Description	Responsibilities
Project Sponsor	The entity funding the project	Ensures project alignment with business goals, approves funding, and monitors progress
Truong Phuoc Loc	Teaching Assistant	
Developer Team	Developers and engineers building the application	Implements the application, ensures technical feasibility and performance
End Users	Home cooks and cooking enthusiasts	Uses the application to find, share, and discuss recipes

3.2 User Summary

Name	Description	Responsibilities	Stakeholder
Home Cooks	Individuals cooking meals at home	Use the app to find, share, and get suggestions for recipes	End Users
Enthusiasts	People passionate about cooking and recipes	Share and discover new recipes, interact with the AI chatbox	End Users
Party Hosts	Individuals planning meals for gatherings	Use the app to find recipes suitable for parties	End Users

3.3 User Environment

- Number of people involved in completing the task: Varies, typically 1-3.
- Task cycle: Users may interact with the app daily or weekly, spending anywhere from 5 minutes to an hour per session.
- Unique environmental constraints: Mobile, predominantly used in the kitchen environment.
- System platforms: Android.
- Other applications in use: Various other cooking and recipe apps.

3.4 Summary of Key Stakeholder or User Needs

Need	Priority	Concerns	Current Solution	Proposed Solutions
Easy access to a variety of recipes	High	Limited selection	Various recipe websites/apps	Comprehensive recipe database
Personalized recipe suggestions	High	Lack of personalization	Manual search and adjustment	AI-powered chatbox for tailored suggestions
Share and discover new	Medium	Lack of	Social media,	Integrated sharing and

recipes		engagement	forums	discovery features

3.5   Alternatives and Competition

Cooky: have features such as saving recipes, Shopping List (noting which ingredients needed to buy), etc.

Cookpad: have features such as directly messaging with recipes' owner, sharing cooking recipes, etc.

4.   Product Overview

4.1   Product Perspective

The LemmeCook application is an independent and self-contained product designed for Android platforms, focusing on providing a comprehensive recipe database with personalized AI-powered suggestions and easy sharing features.

4.2   Assumptions and Dependencies

- Availability of Android devices with internet access.
- Users' willingness to interact with AI chatbox features.
- Reliable data sources for nutritional information.

5.   Product Features

Feature ID	Feature	Description	Priority
GU.01	Show recipes depending on the name of food	Allowing user to get recipes based on keyword of name	High
GU.02	Suggest recipes depending on ingredients	Allowing user to get recipes satisfying several amounts of ingredients	High
GU.03	Sort by time, evaluation	Allowing users to have a list of recipes based on rating of recipe, cooking time of recipe, etc.	Low
GU.04	Showcase top 5 recipes	Showcasing on main screen the top 5 recipes having most rating	Low
FU.01	Group recipes depending on main ingredients (such as chicken, beef, etc.) and sort by evaluation for these recipes	Group recipes by categories such as chicken, beef, etc. and sort the recipes in each category by the evaluation in default	Medium
FU.02	Post and share cooking recipes	Post and share new recipes on blog (in this app, the cooking recipes will display in the form of blog)	High
FU.03	Rate recipes	Evaluate the recipes based on usefulness or something equivalent	Medium
FU.04	Comment recipes	Since recipes will display in the form of blog, users can comment on them	Medium
FU.05	Save favorite recipes	Save the specific to lists (private/public)	Medium
PU.01	AI Chatbox	Give recipes satisfying requirements (nutrition, ingredients…). Give recipes satisfying user's diets.	Low
ADM.01	Approve or decline moderators'	Authorize moderators	Medium

	permissions		
ADM.02	Observe the statistics of the system (views, users…)	Get the numbers of usage and users in current month	Low
MOD.01	Add, edit and remove recipes		Medium
MOD.02	Approve or decline recipes	Moderate new recipes upload by users	Medium
MOD.03	Communicate with recipes posters	Chat with users	Medium
MOD.04	Moderate community	Ban an existed recipe if needed	Medium

6. Non-Functional Requirements

Compliance with relevant food and nutrition standards.

High performance and responsiveness on Android devices.

Robustness and fault tolerance for consistent user experience.

User documentation including a help guide and FAQs.