MANOS

Healthy Food Decider

Project Vision Document

Version 1.4

September 29th, 2024

Revision History

Revision	Date	Author	Reviewed By	Summary of Changes
1.2	09/18/2024	All	Prof. Laily	Created document. Filled Introduction, Definitions, SWOT, and Constraints.
1.4	09/29/2024	All	Prof. Laily	Updated Document Approval List, References, Stakeholder Requirements, and System Features.
		All	Prof. Laily	Updated Document Approval List, Document Distribution List, and Problem Statement.

Document Approval List

Version	Approved By	Signature	Date
Project Summary 1.3	Prof. Laily		09/22/2026
Minutes of Meeting 1.4	Prof. Laily		09/23/2026
High Level Requirements 1.4	Prof. Laily		09/25/2026
Project Plan 1.5	Prof. Laily		10/09/2024
Team Charter 1.5	Prof. Laily		10/09/2024
Product Backlog 1.5	Prof. Laily		10/09/2024
Sprint Backlog 1.5	Prof. Laily		10/09/2024
Meeting Minutes 1.5	Prof. Laily		10/09/2024

Document Distribution List

Version	Name of the Receiver/Group	Date

Table of Contents

1   Introduction

This document provides an overview of the Food Decider App. This project is being developed by Group MANOS. The goal is to merge healthy eating and decision-making applications into one. The target audience pertains to people with dietary restrictions and those suffering from indecision. Additionally, the app will be designed to contain recommendations for restaurants, meal history, a grocery list, and recipes based on the users' given ingredients. All around, this app will provide many areas with one big platform.

1.1   Purpose

The purpose of the Food Decider Project Vision Document is to have a comprehensive collection of the final product expectations and progress throughout development. The document was created to ensure that the team, stakeholders and customers have a clear understanding of the problem, proposed solution and features that the project encompasses.

1.2   Scope

The Food Decider App aims to provide a seamless platform for individuals with dietary restrictions and those struggling with meal-related indecision. The app will focus on integrating healthy eating resources with user-friendly decision-making tools.

1.2.1 In Scope:

Meal Tracking & Recipes: Track past meals to recall favorites and get personalized recipes based on available ingredients.

Dietary Restriction Management: Features to accommodate specific dietary needs (e.g., allergies, preferences).

Restaurant & Grocery Recommendations: Curated restaurants lists tailored to users dietary needs, alongside functionality to generate grocery lists based on selected recipes.

User Profiles: Allowing customization of dietary preferences and restrictions.

1.2.2 Out of Scope:

- **Calorie Counting**: The app will not include features for tracking calorie intake.
- **Ordering Products**: The app will not facilitate direct ordering of groceries or meal delivery.

1.3   Definitions, Acronyms, and Abbreviations

This section explains all of the terms and abbreviations that are being used in this document, for those who are unfamiliar with them. Not everybody who reads this document will understand all of the terms, so this section is helpful.

Term	Explanation
App	Application
AI	Artificial Intelligence
UI	User Interface
UX	User Experience

1.4   References

Reference File Name	Version	Description
Project Summary	1.3	Overall summary of the project and company.
Minutes of Meeting	1.4	Summary of the most recent team meeting.
High Level Requirements	1.4	Overview of the high level requirements of the project.

This section also contains links to all other places that were referred to in this document. These may include:

- *Web sites*

- *URLs or network locations*

- *Research done for similar products*

Name	Link
A Competing Healthy Recipe App	https://play.google.com/store/apps/details?id=es.nooddle&hl=en_CA
A Competing Meal Decider App	https://play.google.com/store/apps/details?id=com.leonw.randomfoodselector&hl=en_CA

2   Positioning

2.1   Business Opportunity

There is a growing demand for personalized health and wellness applications that cater to users with specific dietary restrictions and preferences. The Healthy Food Decider app fills the gap between generic recipe apps and meal decider tools by offering personalized recommendations based on individual health needs and available ingredients.

2.2   Problem Statement

The Problem of	of finding meals that meet users' dietary restrictions
affects	people with health conditions like allergies or food intolerances and vegan/vegetarian
the impact of which is	individuals struggle to maintain a safe and healthy diet, often leading to poor food choices or food waste
a successful solution would be	reduce food waste, provide safe meal options, and offer convenience in meal planning

Table 1 Problem Statement

2.3   Product Position Statement

For	users with specific dietary needs
Who	personalized meal recommendation app
The Healthy Food Decider	health and wellness app
That	helps them choose meals and plan shopping lists while reducing food waste
Unlike	other meal decider apps
Our product	integrates health conditions and ingredient availability into its recommendations, offering a more holistic solution

Table 2 Product Position Statement

SWOT Analysis

<Reference: https://www.businessballs.com/strategy-innovation/swot-analysis/)

Strengths	Weaknesses
Personalized recommendations	Dependency on user input for accurate recommendations
Integration of dietary restrictions and health condition	Limited to ingredients and restaurant databases included
AI-powered decision support	Rapid Technological Change
Opportunities	**Threats**
Growing focus on health and wellness	Competition from other meal and recipe apps
Potential partnerships with health institutions and nutritionists	Potential data privacy concerns with health-related information
Expansion into Different Dietary Cultures	Potential regulatory restrictions

3   Stakeholder and User Descriptions

3.1   Stakeholder Summary

Stakeholder Name	Represents	Role
Team MANOS	Project Team	Responsible for design, development, and maintenance of the application
Users	End Users	Use the app to find meal recommendations and manage shopping lists

Table 3 Stakeholder Summary

3.2   User Summary

User Name	Description	Responsibilities	Stakeholder
User with dietary restrictions	Needs personalized meal suggestions	Uses the app to find safe and healthy recipes	Team MANOS
User with very specific tastes	Needs personalized meal suggestions	Uses the app to find tasty and healthy recipes	Team MANOS

Table 4 User Summary

4   Stakeholder Requirements

ID	Requirement	Stakeholder
1	Secure database for storing user data and ensuring data protection regulation	Project Team
2	Personalized meal recommendations	End Users
3	Recipe suggestions based on ingredients at home	End Users
4	Shopping list functionality	End Users

Table 5 Stakeholder Requirements

5   System Features

ID	Feature	Stakeholder Requirement ID
1	Secure Database	1
2	Recipe recommendation system	1
3	Ingredient-based suggestions	2
4	Shopping list generation	3

Table 6 System Features

6   Assumptions

1. **User input Accuracy:** It is assumed that users will provide accurate and up-to-date information regarding their dietary restrictions, health conditions, meal preferences, and available ingredients at home.
2. **Growth of Health-Conscious Users:** The project assumes that the market for health-conscious consumers seeking personalized dietary recommendations will continue to grow, driven by increased awareness of food allergies, intolerances, and the importance of diet in managing chronic conditions.
3. **Data Privacy Compliance:** It is assumed that users will trust the app to handle sensitive health and dietary data securely and in compliance with applicable data privacy regulations such as GDPR and HIPAA. The project assumes that necessary privacy measures and disclaimers will be in place to assure users of their data's safety.
4. **Technology Integratio**n: It is assumed that the integration of various technologies such as AI for recommendation algorithms and external data sources (e.g., APIs for recipes and restaurants) will work seamlessly. Furthermore, it assumes that future updates to third-party APIs or data sources will not significantly disrupt the app's functionality.

7 Constraints

Internal Constraints

1. **Cost**: The project has no allocated budget, limiting the options for premium resources or paid API access. The team cannot hire external developers or testers, and all tasks must be done in house.
2. **Time:** The project is due in March 2025. Throughout the course, the project will undergo several iterations and stages of development. Advanced features, such as third-party API integrations for food databases and delivery services, can be implemented through future updates. The project will prioritize core features necessary to meet the minimum viable product (MVP) requirements.
3. **Resources:** Our team consists of five individuals with limited external resources, which restricts our ability to expand the team or bring in external developers to add complex features.
4. **AI Limitation:** Due to project restrictions, AI generated images and text are not allowed during the development. As a result, the team will need to manually source this material which could increase the workload and limit the variety of food images.

External Constraints

1. **Technology**: The app will initially launch on a single platform, Other platforms will be available once the test run is successful.
2. **Security**: User data such as personal information, dietary restrictions and health data will need to be securely stored and handled. The project will prioritize compliance with data privacy regulations.
3. **Social**: User adoption and engagement will rely on social and community acceptance. The app must foster a positive reputation through social media, collaboration and word of mouth to grow its user base.