

# Project Plan

## ◀MANOS Food Decider▶

Industry Partner	George Brown College
Primary Instructor	Laily Ajellu
Team Member	Mo Harry Bandukda
Team Member	Nicole Milmine
Team Member	Oleg Chystieiev
Team Member	Anna Shibanova
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### Document Revision History

Revision #	Date	Notes
2.0	February 2, 2025	Added/edited highlighted content

## Revision 1.1 -

Added Distributors to section 2.

Added more specific deliverables to section 4.

Added and checked sources in section 5.

Added software, library and environment dependencies to section 6.

Added new required documentation to section 8.

Updated and added milestones to section 11.

Updated the date in section 12.

## 1. Executive Summary

The following describes the project to be executed.

Objective	Develop a food decider application that combines healthy eating and decision-making features to assist users with dietary restrictions and indecision in meal and recipe planning.
Planned Start Date	Monday, January 6, 2025
Planned End Date	Thursday, March 27, 2025

## 2. Project Approvers, Reviews and Distribution List

Project Role	Name	E-mail	Date
Approver	Professor Laily Ajellu	Laily.Ajellu@georgebrown.ca	Feb 2, 2025
Reviewer	Professor Anjana Shah	ashah@georgebrown.ca	Feb 2, 2025
Distributor	Team MANOS		Feb 2, 2025

### 3. Scope

Define the total of its products and their requirements or features.

In Scope	Out of Scope
User profile creation and management	Integration with wearable devices or fitness trackers
Dietary restriction input and management	Direct ordering of groceries or meal delivery
Meal history tracking	Advanced nutritional analysis
Ingredient-based recipe suggestions	Calorie counting features
Shopping list generation	Fridge Scanner
Recipe and restaurant recommendations based on dietary restrictions and preferences	

### 4. Deliverables

Deliverable	Description
User-friendly application	A web application with an intuitive interface for easy navigation and use
Easy Sign-up Process	A user-friendly account creation process for all ages.
Recommendation system	An ML-powered system that suggests meals based on user preferences and dietary restrictions
Calendar-based UI	A feature for daily meal planning and history tracking
Shopping list functionality	A tool to generate shopping lists based on selected recipes. It will also allow the user to add ingredients not in recipes so the user only requires one list.
Fridge Scanner	In addition to the shopping list functionality, there will be an option to scan the users' fridge to add their current inventory to their grocery list.
Allergy Warnings	If the user has specified allergies, a warning is provided if the user selects a recipe that contains an allergen or adds an allergen to their shopping list.

Recipe and restaurant integration	A database of recipes and local restaurants that align with user preferences
Recipe Recommendations	A recommendation section that will provide recipes based on the users' current fridge inventory or provided ingredients.
Database management system	A secure system to store and manage user data, recipes, and restaurant information
Customizable User Profile	The profile page will have an updateable picture, name, weight, and height.
Editable Dietary Restrictions and Allergies	The profile page will contain a place to manage the users' dietary restrictions and allergies.
Viewable Meal History	The user can view their meal history to track recipes and health goals.

## 5. Assumptions

- Users will provide accurate and up-to-date information regarding their dietary restrictions and preferences, as this data is specific to the user.
- The market for health-conscious consumers seeking personalized dietary recommendations will continue to grow, as shown in this article: <https://www.statista.com/statistics/491362/health-wellness-market-value/#:~:text=Published%20by,taken%20by%20travelers%20in%20Europe.>
- Users will trust the app to handle sensitive health and dietary data securely, as proven in this article stating Alarming Data Privacy Statistics: <https://explodingtopics.com/blog/data-privacy-stats>
- Integration of various technologies (AI, external APIs) will work seamlessly. This assumption is based on the team's growing knowledge of ML and our time management abilities.

## 6. Dependencies

- Access to a comprehensive and up-to-date database of recipes and restaurant information
- Availability of AI and machine learning tools for the recommendation system
- Compliance with data privacy regulations (e.g., GDPR, HIPAA)
- Collaboration with local restaurants for accurate menu information
- Software: GitHub, VSCode, Docker.
- Libraries/Environments: React, React Native, Expo, Express.js Node.js, PostgreSQL, Firebase Authentication.

## 7. Risk Management

Potential Risk	Severity (H/M/L)	Likelihood (H/M/L)	Management Strategy
Data privacy breach	<b>H</b>	<b>L</b>	Implement robust security measures, regular audits, and comply with data protection regulations
Inaccurate recommendations	<b>M</b>	<b>M</b>	Implement thorough testing, user feedback loops, and continuous improvement of the ML algorithm
Low user adoption	<b>H</b>	<b>M</b>	Conduct user research, implement engaging UI/UX, and develop a strong marketing strategy

## 8. Communication

### Reporting

The following reports will be produced;

Report	Audience	Frequency
Project Vision	Team & Stakeholders	Once
Project Plan	Team & Stakeholders	Updated as needed.
Meeting Minutes	Team & Stakeholders	Per Meeting
High-Level Requirements	Team, Stakeholders & Customers	Once
Project Summary	Team, Stakeholders & Customers	Once
User Stories	Team & Stakeholders	As needed
User Personas	Team & Stakeholders	Once
Project Plan	Team, Stakeholders & Customers	Once

Team Charter	Team & Stakeholders	Once
Product Backlog	Team	Per Sprint
Sprint Backlog	Team	Per Sprint
Project Status Report	Team	Per Sprint
System Implementation Presentation	Team	Sprint 6, Sprint 8
Closure Report	Team	Once

### Meetings

The following meetings/communication will be established;

Meeting	Purpose	Attendees	Frequency
Sprint	To discuss Sprint one and complete or delegate tasks to complete the required.	Mo, Anna, Nicole, Oleg, Shirin	Per Sprint
Sprint Review	To discuss the previously completed Sprint and what could have been improved.	Prof Laily, Mo, Anna, Nicole, Oleg, Shirin	Per Sprint or as needed
Presentation	To summarize and share the purpose and goal of the project with peers.	Prof Laily, Mo, Anna, Nicole, Oleg, Shirin, Capstone students.	As needed

## 9. Task Listing (WBS- Work Breakdown Structure)

Reference	Tasks	Duration	Dependency
A	Risk Management	2 Months	High
B	Design	4 Months	Mid
C	Assess Requirements & Scope	4 Months	High
D	Quality Assurance & Testing	4 Months	Mid
E	Preparing Documentation	4 Months	High
F	Sprint Planning	8 Months	Low
G	Development	4 Months	High

## 10. Gantt Chart

Create a detailed Gantt Chart from your Task Listing(Use any software tool and paste the image or upload it as a separate file that can be opened as pdf/doc/xls)

Below is an example:

Task	Period										Completed
	Sep 12t	Oct 2	Oct 3	Oct 9	Oct 10	Oct 31	Nov	Dec 15	Jan2 025	Apr 2025	
Risk Management											Yes
Assess Requirements & Scope											Yes
Docu											No

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Sprint Planning											No
Design											No
Development											No
Quality Assurance & Testing											No

## 11. Milestones

Major Activity or Milestone	Estimated Milestone Target date	Owner/Reviewer Team Members
Sprint 1	Oct 2, 2024	Prof Laily, Mo, Anna, Nicole, Oleg, Shirin
Sprint 2	Oct 9, 2024	Prof Laily, Mo, Anna, Nicole, Oleg, Shirin
Sprint 3	Nov 6, 2024	Prof Laily, Mo, Anna, Nicole, Oleg, Shirin
Sprint 4	Nov 18, 2024	Prof Laily, Mo, Anna, Nicole, Oleg, Shirin
Sprint 5	Feb 2, 2025	Prof Laily, Mo, Anna, Nicole, Oleg, Shirin
Sprint 6	Weeks 5	Prof Laily, Mo, Anna, Nicole, Oleg, Shirin



<b>Sprint 7</b>	<b>Week 10</b>	Prof Laily, Mo, Anna, Nicole, Oleg, Shirin
<b>Sprint 8</b>	<b>Weeks 13</b>	Prof Laily, Mo, Anna, Nicole, Oleg, Shirin

## 12. RAM – Responsibility Assignment Matrix

Task	Mo	Anna	Nicole	Oleg	Shirin
Risk Management		S	S		P
Design		P		S	
Assess Requirements & Scope	P	S			
Quality Assurance & Testing	S		S		P
Preparing Documentation	S		S	P	S
Sprint Planning	S		P	S	S
Development	P	P	S	P	S

P → Primary, S → Secondary

## 13. Approval

The signatures below indicate their approval of the contents of this document.

Project Role	Name	Signature	Date
Team Lead / Scrum Master	Oleg	<i>Oleg Chystieiev</i>	Feb 6, 2025
Product Owner	Anna	<i>Anna Shibanova</i>	Feb 6, 2025
Project Manager / Operations Coordinator	Nicole	<i>Nicole Milmine</i>	Feb 6, 2025
Lead Developer / Technical Advisor	Mo	<i>Mo Harry Bandukda</i>	Feb 6, 2025
QA Specialist / Support Specialist	Shirin	<i>Shirin Ali</i>	Feb 6, 2025
Prof / Lab Instructor	Laily		Feb 6, 2025

