

Meta University Eng Project Plan Template

NutriPal

Intern: German Salas Martinez

Intern Manager: Kevin Khoi Le

Intern Director: Josh Katz

Peer(s): Tristan Lang and Mountain Henning

GitHub Repository Link: <https://github.com/GermanS04/capstone-project>

Overview

[Provide a brief description of what your project is about and what problems it aims to solve.]

- Category: Nutrition
- Story: [Describe the core story of the app. For example, a photo-sharing social network would have users sign up, post photos and have other users follow them and see their photos.]
- Market: Young Adults
- Habit: Daily
- Scope: [What is the initial scope that your app will cover? For example, in a photo-sharing social networking app, you may only want content to be based on photos, but something that may be out of scope is videos.]

Product Spec

User Roles

- “Health Enthusiast”: A user who is seeking recommendations on how to eat healthier.

User Personas

- **College Student**

Name: Sarah Thompson

Location: Boston, Massachusetts

Age: 20

Access to Technology: Sarah is tech-savvy, she uses her phone, tablet, and laptop for academic and personal purposes. Uses apps daily for various aspects in her life like studying, socializing and managing her health.

Motivation: Her motivation is maintaining a balanced diet to support her well-being and academic performance by making healthier choices to ensure she gets all the necessary nutrients despite her busy schedule as a college student.

Pain Points: Sarah may have limited time to prepare meals and having difficulties keeping a consistent diet plan due to dining hall menus, social eating occasions or busy schedule with classes.

- **Professionalist**

Name: David Garcia

Location: Austin, Texas

Age: 35

Access to Technology: David is proficient with technology, he uses his phone and laptop for work and personal use. Relies on apps to manage his fitness and health. They would access the website daily to plan his meals and review his nutritional intake.

Motivation: David wants to have a healthy lifestyle to improve his overall fitness, as well to enhance his energy levels and productivity at work.

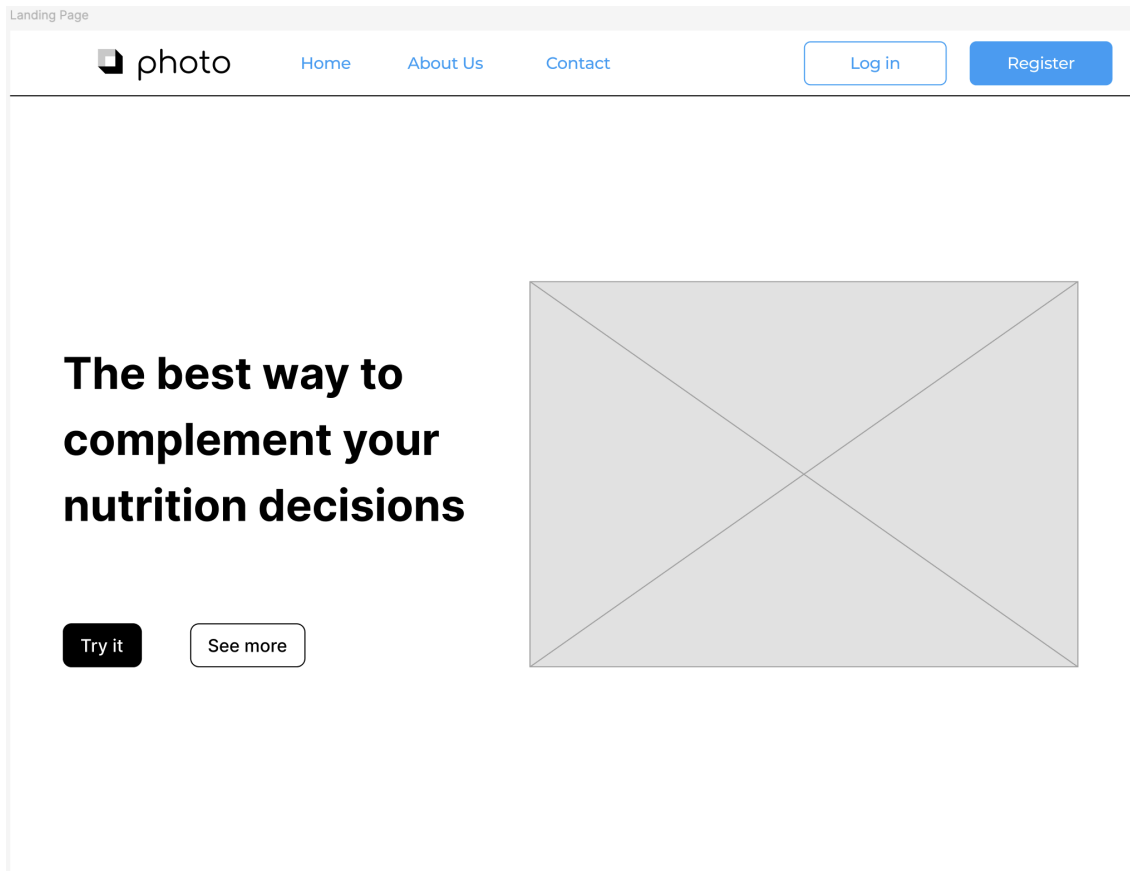
Pain Points: He has limited time to cook due to his busy work schedule so he relies on fast unhealthy meals. Additionally he has difficulties finding reliable and personalized nutritional advice that fits his specific lifestyle and health goals.

User Stories

1. As a college student, I want to have a meal plan that can adapt to my budget constraints, so that I can eat healthy without overspending money.
2. As a health enthusiast, I want to receive a detailed nutrition breakdown of my meals, so that I can be sure that I'm meeting my daily nutritional requirements.
3. As a busy person, I want to take photos of my meals for analysis, so that I can quickly log my food intake without manual entry.
4. As a detail-oriented person, I want to manually enter the details of my meal, so that I can have precise control over the nutritional information I record and ensure the accuracy.

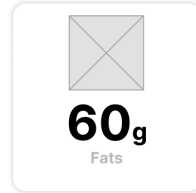
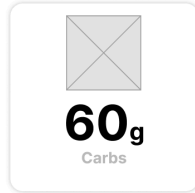
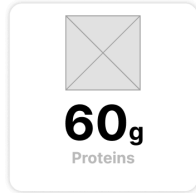
5. As a home cooker, I want to get healthy recipe suggestions, so that I can prepare healthy meals at home.
6. As a socially active person, I want to find healthy options when I go out eating with friends, so that I can maintain my diet while gathering with friends.
7. As an organized person, I want to have a meal plan of the week, so that I can save time when planning meals.
8. As a health enthusiast, I want to keep track of my progress, so that I can see how these changes are affecting my health.
9. As a person who goes to the nutritionist, I want to have easy access to my meal history, so that I can share accurate information with my nutritionist to receive personalized advice.
10. As a health enthusiast, I want to keep track of my water intake, so that I stay properly hydrated during the day.
11. As a user, I want to register an account, so I can login and use the application.
12. As a user, I want to delete my profile from the application, so I can ensure a deletion of my data.

Screen Archetypes





Today's Macronutrients



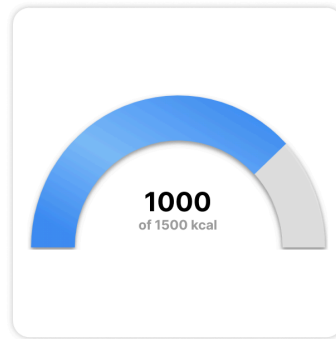
Recommendations for today

Breakfast →
Ready to start your day?

Lunch →
Ready to start your day?

Dinner →
Ready to start your day?

Today's Progress



June 24, 2024

Breakfast

Lunch

Dinner

Summary of the
day

 Search

Year

2024

2025

2026

2027

2028

2029

2030

2031

Month

Jan

Feb

Mar

Apr

May

Jun

Jul

Ago

Sep

Oct

Nov

Dec

June 23, 2024

Breakfast

Lunch

Dinner

Summary of the
day

June 20, 2024

Breakfast

Lunch

Dinner

Summary of the
day



How do you want to register this meal?

Automatic →

Search →

Manual →



Manual Registration

Name of the food

Burger...

Description (Optional)

From restaurant...

Breakfast / Lunch / Dinner

Select a Category



Grams of Protein

64

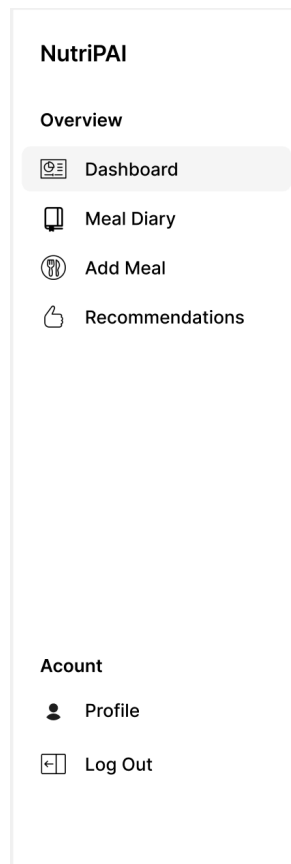
Grams of Carbs

64

Grams of Fats

64

Submit



Data Model

User Table

Column name	Type	Description
id	integer	Primary key
name	string	Name of the user
last_name	string	Last name of the user
username	string	Username of the user
password	string	Password of the user

Plan Table

Column name	Type	Description
id	integer	Primary key
type	string	Breakfast, Lunch or Dinner
food_id	integer	Foreign key of the meal table

Meal Table

Column name	Type	Description
id	integer	Primary key
name	string	Name of the meal
category	string	Breakfast, Lunch or Dinner
recipe_url	string	URL of the recipe given by the EDAMAM API
photo_id	integer	Foreign key of photo analysis

Photo Analysis Table

Column name	Type	Description
id	integer	Primary key
analysis	string	Analysis of the photo from Gemini
name	string	Name of the meal
user_id	integer	Foreign key of which user uploaded the photo

Recommendation Table

Column name	Type	Description
id	integer	Primary key

name	string	Name of the meal
category	string	Breakfast, Lunch or Dinner
description	string	Description of the meal and why it was chose
user_id	integer	Foreign key to identify which user is the recommendation

History Table

Column name	Type	Description
id	integer	Primary key
date	date	Day of when the user uploaded the meal
user_id	integer	
meal_id	integer	

Server Endpoints

HTTP Verb	Name	Description	User Story
GET	user/id	Getting the user in order to login	11
POST	user	Registering a new account of a user	11
DELETE	user/id	Deleting the user and related data from the database.	12
GET	plan/userid	Creates a meal plan to adapt to the user's preferences	1, 7
GET	breakdown	Have a detailed nutrition	2, 8, 9

		breakdown of the meals registered	
POST	photo	Upload a photo of a meal to analyze.	3
POST	details	Manually entering the details of the meal.	4
GET	recipes	Getting healthy recipes for the recommended meals	5
GET	recommendation/userid	Getting recommended meals to have/	1, 5, 6, 7
GET	progress/userid	Keeping track of the nutritional value to compare to a determined goal	8, 9
GET	history/userid	Getting a history of all the meals eaten	8, 9
POST	water	Log the daily water intake	10

Navigation

Project Requirements

[Based on the [Project Guide](#), describe how your project is going to be fulfilling each of the base project requirements.]

Technical Challenges

For your project, you should demonstrate that you can apply what you've learned so far and expand on that knowledge to write code and implement features that go beyond the scope of the projects you worked on during CodePath.

Based on the general idea and direction of your project requirements, your intern manager will create at least two (2) Technical Challenges for you. This section is all about explaining what they are and how you're planning to tackle them - you'll work together with your manager to fill it out.

Technical Challenge #1 - [Name/Small Description]

What

What problem are you solving, and what parts go beyond what you learned in CodePath?

How

Explain in words how you'll solve this problem.

You're encouraged to expand on this section with pseudo-code, links to external frameworks, architecture / design diagrams, anything that you can use to explain this to others!

Technical Challenge #2

What

How

Database Integration

[Describe what you are using for database storage. For example, Parse, MongoDB, Sequelize, etc.]

External APIs

[Describe at least one external API you're using for your project. For example, Google Maps, Spoonacular, OpenWeather, etc.]

Authentication

[Describe how user authentication is handled for your project, including logging in and signing up. Also describe any kind of cookie / session management you're doing and how you're implementing it, and how this affects navigation between different screens by the same user.]

Visuals and Interactions

[Provide details on how your app is fulfilling the following UI craft requirements, and how these are technically accomplished.]

- Interesting Cursor Interaction
- UI Component with Custom Visual Styling
- Loading State

Timeline

Project execution will start in Week 4 of MU. Based on the previously defined requirements, user stories and technical challenges, use the following table to scope out and plan a timeline for deliverables over Week 4 - 9. You can be as detailed as you need, ranging from simply mentioning the user stories, or dividing them into sub-tasks.

You are free to modify the table, add / remove rows or columns, whatever fits your style! The important thing here is that you focus and prioritize certain aspects of your project so you don't get behind and are ready to deliver the MVP - remember your required features should be code complete before the end of Week 8, including both technical challenges!

We also encourage you to leverage project tracking tools such as GitHub Issues or Meta's internal Tasks / GSD tooling to keep manage individual units of work.

MU Week	Project Week	Focus	User Stories
4	1	Focus on the components that will serve as the skeleton of	Example:

		your project. You will probably be using most of what you learned in CodePath to set up things like the client and server repositories, initial routing, login / registration, creating a database with object models, etc.	<ul style="list-style-type: none"> - User can login - User can create an account - [Optional] User passwords are encrypted in the database for security
5	2	Week 5 and 6 should be where you focus on the specific requirements of your project.	Example: <ul style="list-style-type: none"> - User can create / edit / delete posts - User can chat with other users in real-time (e.g. technical challenge)
6	3	By this point, you should be getting started with your technical challenges as well.	
7	4	You should focus on finishing your MVP and core requirements. By this point, you should be done with at least one of your technical challenges.	
8	5	Continue work on finishing touches and stretch goals for your MVP. By this point, your core functionality and both TAPs should all be in place. It is also a good point to start working on stretch goals that could further expand on the functionality (and technical complexity) of your project. This week you also have to submit your self-review, make sure you allocate enough time for this alongside your final submission for your project!	
9	6	It's time to show others what you have built! Work on a presentation and demo that you will present to other interns to showcase your work. You are also free to continue polishing and expanding on your project!	
10	7	For this week, we have a bunch of extra activities prepared to give you a quick dive of what it is to work at Meta. You will find activities around using internal tools and frameworks, and even committing code to our internal repositories.	