

Camryn McPhaul, Alex Kao, Evan Hennes: WOW (Tuesdays/Thursdays, 12:20pm, in-person, text/call, Fondren Library)' February 6, 2025

# Team Profile



Camryn McPhaul, I am a junior majoring in Computer Science B.S

Have a love for karaoke and good food



Alex Kao, majoring in Computer Science B.S. and Music B.A. (Oboe)

Have a love for books and good food



Evan Hennes, majoring in Computer Science B.S.

Have a love for music and balisongs

# User Story (Setup)

#### Alex Kao

- User will be able to register an account with an account name, username and password.
  - Upon registering, user will be prompted in a new window to input their primary goal(s) for their generated meals.
  - System will store the primary goal(s) and use them when querying the Al.
  - After inputting their primary goal(s), user will be prompted to (optionally) fill out the rest of their profile (in the same window) with the following:
    - Height
    - Weight
    - Allergies
    - Intolerances
    - Gender
- User will be able to log in to their account with that username and password.
- User will be able to click a button to view a tab with their profile.
- User will be able to click a button to edit their profile.
- User will be able to edit their username, password, account name, height, weight, allergies, intolerances, and gender in the "edit profile" page

# User Story (Frontend)

## Evan Hennes/Camryn McPhaul

#### As a user, I want to be able to:

- List ingredients I have on hand into the inventory tracker
- See my progression of the meals that I login
- List my desired macros
- Choose the desired meal based on duration and difficulty level
- Specify my desired difficulty level
- Designate meals that I have eaten

### System will:

- Provide a recipe based on the user's specified ingredients, macros, difficulty level, etc.
- Adjust recipe as needed based on the user's specifications
- Display user's total macros for the day based on meals that they have prepared

#### > Solution will be:

- Responsive
- Accurate
- Intuitive

# User Story (ChatGPT API/Backend)

## Camryn McPhaul/Evan Hennes

### System will be able

- To have efficient data storage for profiles, preferences, dietary restrictions, saved recipes, and meal logs that can be retrieved in real-time when asked commented in the AI chat by the user.
- To use ChatGPT (nutritional) databases information for fast querying.

### System will perform

- Recipes suggestions generated based on user input, preferences, and past logs using AI or rule-based systems.
- Nutritional analysis for meals that have been logged manually is calculated and displayed to the user.
- The app recommends meals with missing nutrients based on a user's goals.

#### Solution look and feel

- Responsive and engaging to ensure a seamless experience across devices.
- Clear and intuitive design to easily navigate through the menus and dashboard.

#### Admin will be able

- Update the ChatGPT database with new recipes, ingredients options.
- To manage user's data by viewing their meal logs, preferences and engagement metrics
- Track API performance and integration issues.
- Manage flagged or inappropriate user comments or reviews.

# **Tech Stack**

- Swift
  - Apple's application development software
- Python w/ ChatGPT API
  - Simple & efficient way to utilize ChatGPT's API for AI aspect of the application
- Pandas
  - Efficient, powerful, reliable database management library in Python
- Firebase
  - For redundancy and guaranteed compatibility with Swift
- iOS Compatibility











# **Project Schedule**

### January

- Jan 26<sup>th</sup> First Meeting All
- Jan 28<sup>th</sup> Complete User Story All
- Jan 30<sup>th</sup> Complete Wireframes/Database All
- Feb 6<sup>th</sup> Mobile Application Part 1 Due

### February

- Feb 10-14: Backend Setup & API Integration Evan
- Feb 10-17: Build Authentication (Sign Up & Login)
  Alex and Camryn
- Feb 18-24: Start Meal Logging Feature Alex
- Feb 25-28: Al-Powered Meal Suggestions Evan and Camryn
- Feb 28th Mobile Application Part 2 Due

#### March

- March 1-3:Improve Meal Logging Evan
- Mar 5-15: Nutrition Insights Page Alex and Camryn
- Mar 16-31:Final Debugging & Fixes All

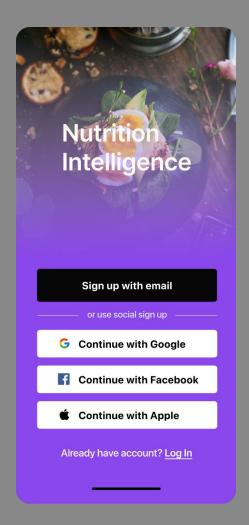
### April

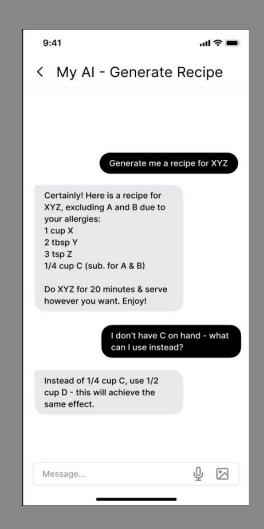
- Apr 1-3: Final Testing—- All
- Apr 4th Mobile Application Part 3 Due

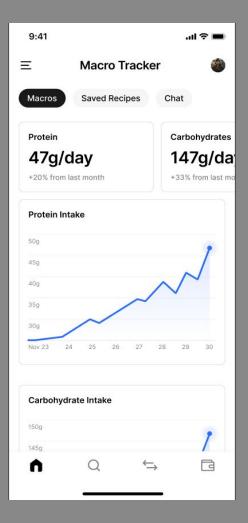
# **Deliverables**

Group Number: 10	
Assignment	Deliverable
1	Profile page – All User Stories – All Tech Stack All Database Scheme– Evan Schedule – Camryn
2	
3	
4	

# Wireframes









# Wireframes

