Sprint Plan 4 - NutriHall - CSE 115-A – Intro to Software Engineering - 11/19/24

For sprint 4, we aim to finalize the design features of the front end (finalizing the dining hall selector & food diary day selector). Furthermore, we aim to finalize the AI generation for meals and push for project release.

Task listing, organized by user story:

User Story 1:
As a student who pays attention to their diet, I want to be suggested meal plans that fit within my restrictions and adhere to my goals.

Task 1: Further develop the existing front-end UI for meal plan suggestions. (3 hours)
Task 2: Finalize the meal plan algorithm that adheres to user restrictions and nutrition goals. (4 hours)
Task 3: Create an API endpoint to generate and return meal plans. (3 hours)
Task 4: Integrate the meal plan suggestions into the front-end interface. (3 hours)
Task 5: Test meal plan generation and ensure it aligns with user restrictions and goals. (3 hours)
Total: 16 hours

User Story 2:
As a student who eats at the UCSC dining halls, I want to responsively and easily select which college's menu I want to see.

Task 1: Build on the pre-existing dining hall selector to make the functionality smooth. (3 hours)
Task 2: Implement more daisyUI/tailwind components and potentially other libraries to update the styling of the website. (this will be further split into subtasks for each component)

User Story 3:
As a student who pays attention to their diet, I want to see my nutritional breakdown and what I ate in previous days as well.

Task 1: Integrate additional day and calendar functionality into the food diary. (5 hours)
Task 2: Finalize the macronutrient and caloric info for each food item in the menu and food diary pages. (5 hours)
Task 3: Integrate the testing libraries to ensure all components work as intended for edge cases. (4 hours)

· **Team roles:**

Aiden: Developer

Violet: Developer

Artem: Developer & Scrum Master

Amish: Developer

Kevin: Developer

· **Initial task assignment:**

Violet: Create unit tests and general testing for previous/current user stories. Continue integration of backend components with frontend(displaying nutrient information to the frontend.

Kevin: Applying ES lint code standards. Integrate user meal preferences from the backend. Work on finalizing and fine-tuning the AI model for meal suggestions.

Amish: In the front end, overhaul the styling of the website using daisyUI, and tailwindCSS. Finalize caloric and macronutrient info for each food item.

Aiden: Finalize the web-scraper, work on finalizing the AI model, and create the front-end components to display the AI-generated meals.

Artem: Build on the pre-existing dining hall selector to make the functionality smooth. Integrate additional day and calendar functionality into the food diary. (5 hours)

· Initial burnup chart:

Sprint
SCRUM Sprint 4

Estimation field
Issue count

Date - November 19th, 2024 – December 3rd, 2024

Completed work
Number of issues completed this sprint

Guideline
Ideal burn rate

Work Scope
Number of issues to be completed this sprint

· Initial scrum board:

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SCRUM Sprint 4

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TO DO 11

Create forgot password functionality

☑ SCRUM-26

Further develop the existing front-end UI for meal plan suggestions. (3 hours)

☑ SCRUM-33

Finalize the meal plan algorithm that adheres to user restrictions and nutrition goals. (4 hours)

☑ SCRUM-34

Create an API endpoint to generate and return meal plans. (3 hours)

☑ SCRUM-35

Integrate the meal plan suggestions into the front-end interface. (3 hours)

☑ SCRUM-36

Test meal plan generation and ensure it aligns with user restrictions and goals. (3 hours)

☑ SCRUM-37

Build on the pre-existing dining hall selector to make the functionality smooth. (3 hours)

☑ SCRUM-38

Implement more daisyUI/tailwind components and potentially other libraries to update the styling of the website. (to be divided into components)

☑ SCRUM-39

Integrate additional day and calendar functionality into the food diary. (5 hours)

☑ SCRUM-40

Finalize the macronutrient and caloric info for each food item in the menu and food diary pages. (5 hours)

☑ SCRUM-41

Integrate the testing libraries to ensure all components work as intended for edge cases. (4 hours)

☑ SCRUM-42

+ Create issue

IN PROGRESS 2

Combine the preference contexts and preferences in the database (3 hours)

☑ SCRUM-13

Fetch nution information from the database and display to front end

☑ SCRUM-17

DONE ✓

· **Scrum times:** Monday @ 2:30pm, Saturday @ 12pm, and Thursday 1:45pm

Date - November 19th, 2024 - December 3rd, 2024