#### 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:

#### <u>User Story 1:</u>

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:

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

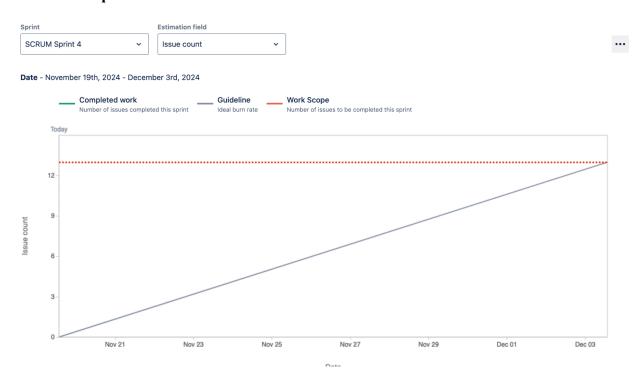
<u>Kevin</u>: Applying ES lint code standards. Integrate user meal preferences from the backend. Work on finalizing and fine-tuning the AI model for meal suggestions.

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

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

<u>Artem</u>: 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)

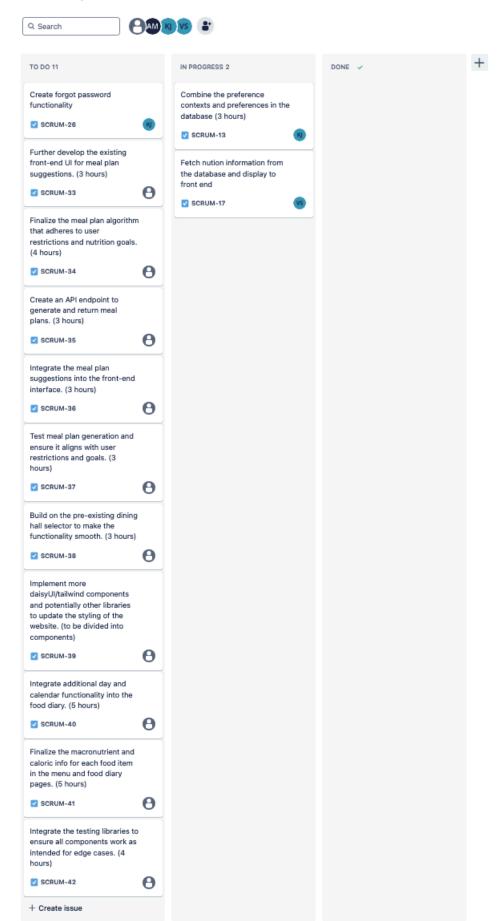
# · Initial burnup chart:



### · Initial scrum board:

### Next page

#### SCRUM Sprint 4



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

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

