## **FINAL SPRINT**

**Activity**: 11.02 - 18.02

## **Sprint goal**

- calories calculator
- BMI and BMR calculator (updates)
- search bar
- meals list

During this sprint, we successfully accomplished all the objectives outlined in our initial proposal. Additionally, significant **updates** were made to the **user profile feature**, enhancing its functionality and user experience.

### Features and their functionalities

### 1. Calories Calculator

- accurately calculates calorie and macronutrient values based on a comprehensive food database
- enables users to save their meals, along with meal types, for future reference
- functionalities
  - o numbered food items for easy selection
  - o displayed food data with precision up to two decimal places

## 2. User Profile (updates)

- includes a meals list logger functionality for users to save and track their meals
- it has <u>now</u> enhanced data organization and sorting options to organize meals chronologically <u>and</u> comprehensive tables with personal data, fitness, and dietary information

#### functionalities

 introduced a calendar-based meal selection option for improved user experience o improved numerical data representation by rounding to two decimal places

In the development process (based on **CI/CD workflow**), in order to ensure the reliability of the application, we:

- implemented a pipeline to streamline dependency installation for both client and server components
- conducted thorough validation tests across different scenarios to ensure <u>robustness</u>

## All members participated in the last sprint.

#### • Asăvoaei Gabriela

- established the food database
- o contributed to the meals planner, including its historical tracking feature

#### • Duluman Andrada

- o implemented the search bar
- o contributed to the meals planner's historical tracking feature

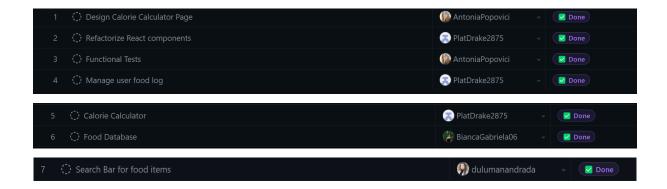
### • Pătrașcu Adrian

- o ensured the CI/CD workflow
- o updated the user profile page
- o implemented the calories calculator
- reduced cognitive complexity of some React components and server controllers (*UserProfile, SidebarMenu, CalculatorCalories, auth.js*)

### • Popovici Antonia

- o did the design for calories calculator page
- wrote functional and performance tests

## **Backlog items**



#### **User Stories**

As a user managing weight loss, I want a feature to input and track my daily caloric intake and expenditure, so that I can monitor my progress towards achieving my weight loss goal.

### **Acceptance criteria:**

- the feature should allow users to input their daily caloric intake accurately, including meals, snacks, and beverages consumed throughout the day
- users should be able to specify portion sizes or quantities for each item entered into the caloric intake tracker
- the caloric intake should be displayed clearly and prominently within the application
- users should have the ability to set and adjust their weight loss goal within the application settings
- the UI should be intuitive and user-friendly, guiding users through the process of inputting and tracking their caloric intake and expenditure efficiently

As a health-conscious user, I want the app to calculate and display my Body Mass Index (BMI) based on my profile information, so that I can better understand and monitor my overall body.

- the app should calculate the user's BMI accurately based on the provided profile information, including height and weight, supporting both imperial and metric units
- BMI calculation should follow the standard formula:  $BMI = \frac{weight}{height^2}$  for metric units and  $BMI = \frac{weight \times 703}{height^2}$  for imperial units

- the calculated BMI should be displayed clearly and prominently within the user's profile or a designated section of the application
- the application should provide context for the calculated BMI, such as categorizing it into underweight, normal weight, overweight, or obese based on standard BMI ranges
- users should have the option to update their profile information, including height and weight, to ensure accurate BMI calculations

## **Sprint Review**

During this sprint, we held our sprint review to evaluate our progress and discuss how the production of the software has proceeded. Here are the key points discussed:

- we assessed our progress towards delivering the functionalities outlined in our initial proposal: we successfully achieved all the objectives set for this sprint, including the implementation of the calories calculator, BMI and BMR calculator updates, search bar, meals list logger
- we discussed how close we are to achieving our <u>MVP</u>: with the completion of the planned functionalities, we are nearing the completion of the MVP, which will provide users with essential features for managing their health and nutrition effectively
- while reviewing our progress, we acknowledged that there were no functionalities
  or objectives that we realized we couldn't achieve within this sprint; however, we
  did recognize an additional achievement in the successful implementation of the
  calendar-based meal selection option within the user profile, which enhances the
  overall user experience

# **Sprint Retrospective**

Following the sprint review, we conducted a sprint retrospective to gather feedback on the development process and discuss what worked well, what didn't, and any unexpected challenges encountered. Here are the key points discussed:

 feedback on development process: we shared feedback on the development process, highlighting aspects that worked well and areas that could be improved; positive feedback was given for the effective collaboration and communication within the team

- what works well: we identified effective collaboration, clear task prioritization, and regular communication as aspects of the development process that worked well; the team's ability to adapt to changes and address challenges promptly was also recognized as a strength
- what can be improved: the team discussed challenges encountered during the sprint, such as managing time constraints and balancing priorities; these challenges provided valuable insights for improving our processes in future sprints