MPIH

Your personal meal planner
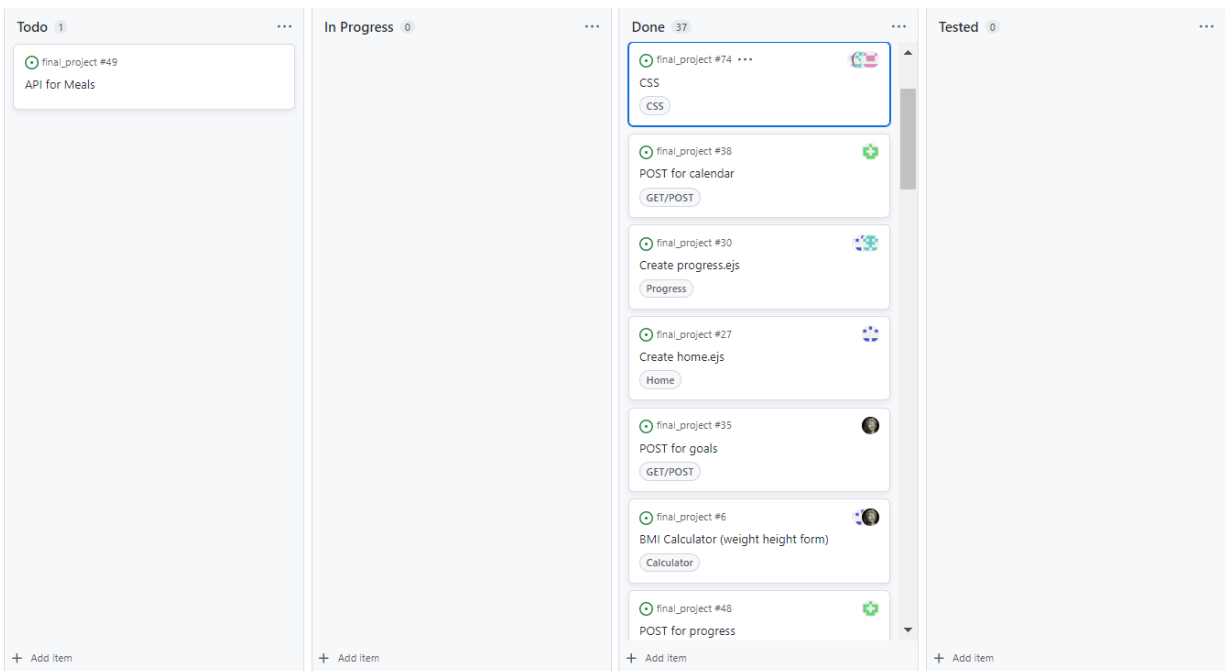
Team Members:
- Nikhil Chakka
- Trajan Pei
- Angela Nguyen
- Jason Pabelico
- Tien Vu
- Kash Challapalli

Project Description: Our app tracks the nutrition intake of users based on calories and nutritional value. It allows them to plan their meals on a day to day basis on a weekly calendar. MPIH is similar to other calorie tracker apps except it gives users the option to personalize their own meals. These unique meals are added to a database that is also accessible to all users. In addition, our app provides users with their goals and progress that keeps track of their nutritional intake. We do this by letting users input their height, weight, and age which calculates their BMR, which then displays a diagram of the sodium, protein, sugar, and fats that they have consumed if they direct to the progress page. In our calendar page, users can add meals in a certain time of day that organizes itself depending on their input. The calendar page also allows users to change the week to any week of December 2022 to see the meals for that week. Likewise, these meals that are added to that calendar are unique to that user and don't display on other user accounts.

Project Tracker - Github Project Board

https://github.com/users/nikhilc1013/projects/1/views/1

Demo Video:
https://drive.google.com/file/d/1A0xBu-w43my6QhntDbzifYR8jXJpPvNz/view?usp=sharing

VCS Repository:
https://github.com/nikhilc1013/final_project

Contributions:
- Nikhil Chakka
    - I contributed to the back end for the pages and the front end for some of the pages. I worked on the GET and POST calls which transfer data between the UI and the database. For UI to database, I worked on storing that data in the database that is received through forms. For the database to UI, I worked on sending information to the UI to load database information. For the front end, I worked on some forms, calendar UI, etc.
- Trajan Pei
    - I contributed to the front end of the application in terms of writing the raw html with basic css, as well as styling in general. I also worked with Nikhil to get the backend implementation for the Progress and Goals page. I also assisted in coming up with brainstorming ideas. Mainly I'd say I contributed most in terms of managing the overall project along with Nikhil to make sure all the work was spread evenly and assigning tasks amongst group members, I was also responsible for communicating with people to make sure assigned tasks were completed.
- Angela Nguyen
    - I contributed to a portion of the front end for the pages in terms of the css and styling of our website. I tried to make it look more professional and visually appealing for users to interact with. In addition I worked on the login and register page which made it so that the user would have an option to either login or register as well as the formatting of the page using html. I also worked on getting the project deployed to CU Boulder's cloud servers.
- Jason Pabelico
    - I contributed to the front end with the styling and css for the pages and worked to make it consistent with the format we wanted for all our pages. I also helped with the progress and goals with the group in trying to visualize the stats we wanted to show.
- Tien Vu
    - My contributions are styling and css.
        - Fixing Angela's styling and css.
    - Home Page
    - Helped with progress and goals
- Kash Challapalli
    - I contributed to some of the back end for pages like the Set BMR page and worked on GET and POST calls for that, as well as a little bit of front end, with some forms and some styling, as well as the deployment.

Use Case Diagram:
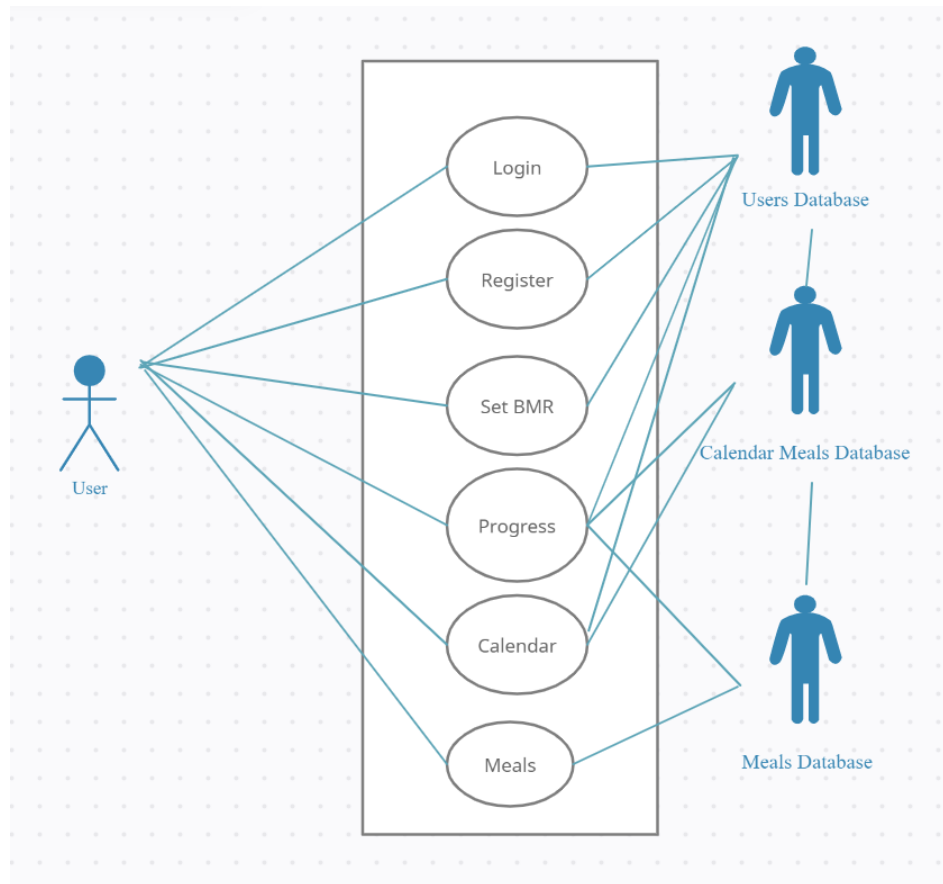
Test Results:

We tested 4 features.

Feature 1:

- Tested sorting of meals for days
    - Test adding to Dec 3, time is 3:21 PM, meal is Fries(after adding it), and some nutritional information
    - Successfully added to Dec 3, so test successful
- Tested sorting of meals based on time
    - Added another fries on the same date at 3:23 AM.
    - Successfully sorted based on time
- Tested saving and updating calendar
    - Adding meals and relogging back on to check if it saves
    - Meals are saved after logging out and logging back on

Feature 2: Progress Page

- For the meals used, tested with 21 cals, 21, carbs, 21 everything
- Testing getting progress info for no meals on a day
    - Correctly shows 0%
- Test getting nutrition info for one meal on a day

- Correctly shows percentage based on the meal
  - Test getting nutrition info for multiple meals on a day
    - Correctly shows percentage based on the meals

Feature 3: BMR calculator/calories needed
  - Calculating BMR based on input
  - Doesn't work with strings as input(successful)
  - Change with to other numbers and verify the it is updating
    - Successful

Feature 4: Meals Database
  - Try leaving one of the fields empty
    - Doesn't submit, is working
  - Add a meal and make sure it is properly showing up on the calendar meal options list and the meals database
    - Is working, successful
    - Tested with Fries, 21 cals, 21 everything
  - Add multiple meals to meals database and make sure it is properly showing up on the calendar meals option list and the meals database
    - Is working, successful
    - Tested with above fries, and Enter a Name, with 12 cals, and 21 in rest of fields

Deployment:
Deployable on local host