

# Testing Plan

We each developed a page of the application individually and tested it as we went. We each tested features of our pages as they were implemented, coming up with a variety of test cases for each feature (an example for the movement tracking page: a case where the user has not yet entered any steps for the day).

## Test Cases

Test cases covered for each module are listed below.

### Dietary Tracking

#### Track Calories

- Saves input to local storage
- Adds meal to meal list in local storage
- Remove meal from meal list in local storage
- Only input numeric value for calories
- Submit button renders new meal to list on page
- Calorie values updated after adding/removing meal

#### Food Suggestions

- Click each suggestion that links to recipe
- Make sure the suggestions add up to a calorie intake
- Try to overload API limit by having multiple devices using the suggestion feature
- Make sure it only gets loaded once a day

### Movement Tracking

- Counting steps that pass the halfway point for the daily step goal.
- Count steps that pass the daily step goal.
- Showing steps over time where preexisting step data does not exist.
- Showing steps over time where preexisting step data does exist.
- Showing steps over time when there is a mixture of preexisting step data and no data for the days of the past week.
- Showing the step goal when no goal is in the database.
- Showing the step goal when a goal does exist in the database.
- Showing daily step progress when no steps have occurred.
- Showing daily step progress when steps have already occurred.
- Showing daily step progress when more steps have occurred than the current step goal.

### Body Profile

- Input non-numeric data for manual weight information displaying error in the input field
- Input numeric data changing the chart with new BMI
- BMI changing for one date only

## **Register**

- Ensuring that the height and weight are valid numbers
- Ensuring that the date of birth is a valid date
- Ensuring that a gender is chosen

## **Goals**

- Ensuring that the calories and steps are valid numbers
- Ensuring that a proper goal is set

## **Bug Tracking**

One major bug encountered was allowing the user to edit their predefined goals. Before integrating the components, the components for Register and Goals worked correctly. The user was able register, set their goals, then edit their goals using react-navigation. After merging the components and integrating a swiper, the edit goals function was not working. Users were still able register, set goals, and view their goals. However, once they tried to edit goals in the swiper, an error message would pop up as the navigator and swiper did not integrate well together.

Another major bug is the API limit that we have to handle. We solve this by creating multiple accounts, so when one of the API credentials reaches its limit, a different credential will be used. Ideally, we would pay for the unlimited features of the API.