

CSE 115A – Introduction to Software Engineering

Test Plan and Report

NutriHall

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System Test Scenarios:

User Story 1: As a user, I want to create an account so I can use NutriHall.

Scenario 1: Create Account (*Pass / Fail*)

- Navigate to nutrihall.vercel.app
- Click Sign-in / Get Started
- Click the blue Sign Up link
- and type email = <whattatedster@gmail.com>
- Password = <password>
- Click the green 'Sign up' button.
- Expected Outcome:
 - Signs in and greets users with a profile page where calories/dietary info can be entered.

User Story 2: As a student who pays attention to their diet, I want to be able to search the meals available, add them to the list of things eaten for the day, and view the caloric/macronutrient breakdown.

Scenario 3: Search and add Meals to Food Diary (*Pass / Fail*)

- Navigate to the "Menus" page.
- Use the search bar to find 'Allergen Free Halal Chicken Thigh'.
- Click the green 'Record Meal' button.
- Repeat for 'Kellog's Rice Krispies' and '2% Lactose Free Milk'
- Expected Outcome:
 - All selected items are added to the 'Food Diary' page.
 - Calories/Macronutrients for selected items are displayed as well.

User Story 3: As a student who eats at the UCSC dining halls, I would like to view the menus of each of the dining halls daily.

Scenario 3: View all dining hall menus (*Pass / Fail*)

- Navigate to the "Menus" page.
- Click one of the map images or select the dining hall from the tiles if on mobile.
- Repeat for all other dining halls.

- Expected Outcome:
 - The menu for each dining hall is displayed with all the food items and their respective nutritional values.

User story 4: As a student who pays attention to their diet, I want to be able to save my preferences and restrictions.

Scenario 4: Select and save preferences and restrictions to profile(Pass / Fail)

- Navigate to the sign-up or login page & perform the associated action
- Navigate to the Settings page
- Navigate to the preferences tab
- On the dietary restrictions section, select all dietary restrictions that should be taken into account
- Expected outcome:
 - The dietary restrictions that were selected will filter the results of the menu items that are displayed and the outcome of the meal generation.

User Story 5: As a student who pays attention to their diet, I would like to be given a generated meal plan for the day based on my dietary restrictions and the available food items at the UCSC dining halls.

Scenario 5: Generate a daily meal plan (Pass / Fail)

- Navigate to the “AI Meal Generation” page.
- Click the blue ‘Generate Meal’ button.
- Expected Outcome:
 - Meals for breakfast, lunch, and dinner are displayed on the screen along with the option to click ‘Record Meal’ to record the meals into the Food Diary.

Unit Tests:

NutriHall_tests_User.test.js

NutriHall_tests_Food.test.js

Note: Jest tests are need to be worked on, issue with how to implement them(manually inputting food item values & testing them each week?). Issue 2: Making keys in Firebase readable.