

CSE 115A – Introduction to Software Engineering: Release Summary

NutriHall

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Key user stories and acceptance criteria:

- As a student who dines at the UCSC college dining halls, I would like to see the menus of each of the dining halls daily.
 - Acceptance Criteria:
 - The app displays a list of UCSC dining halls and each dining hall is clickable to view its specific menu.
 - The menus are clear, organized, and separated into breakfast, lunch, and dinner, and each menu item includes detailed descriptions (ingredients, allergens, dietary restrictions).
 - Menus are updated daily, and users can search for specific dishes across all dining halls.
- As a student who pays attention to their diet, I would like to record what I ate at the dining halls and see the caloric/macronutrient breakdown for the day/each meal.
 - Acceptance Criteria:
 - Users can add meals to their food log with a single click and see a breakdown of their calories and macronutrients consumed for that meal and for the day.
 - Users can edit logged meals (remove items), and changes are reflected immediately.
- 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.
 - Acceptance Criteria:
 - Users can specify dietary restrictions and nutritional goals (like weight, calories, etc.) and be suggested meal plans for the entire day (breakfast, lunch, and dinner) based on the provided dietary restrictions.
 - Generated meal plans include portion sizes, nutritional breakdowns, and customizability (ability to regenerate meals).
- As a student who is constantly on the move commuting to and from campus, I would like to seamlessly access and use the NutriHall website on mobile devices.
 - Acceptance Criteria:
 - All components and pages of the website should be responsively designed.
 - Resolutions should not affect the functionality of the web pages and designs should be implemented with smaller resolutions in mind.

Known Problems:

- Unit/Functional Testing
 - Jest testing does not include any mock or stubs & needs to be further broken down into unit tests, especially with mocking the Firebase database to test the web scraper.
 - Jest testing does not include integration tests, system tests, or end-to-end testing.
- UI/UX bugs/inconsistencies
 - When calorie intake > calorie goal, the pie charts on the history page are inaccurate.
 - The FoodDiary arrows to go to the next/previous date move slightly and are not static.
 - When the 'generate meal' button is clicked > 4-5 times, general text from the AI model is also outputted along with all the meals.
 - Time zones in the history section are incorrect sometimes.
 - In light mode, the landing page font color is slightly difficult to read.
- Logical inconsistencies
 - Protein/Caloric goals accept invalid inputs (negative numbers).
 - On creating an account, invalid email addresses may be entered and emails are not verified.
 - Calorie goal needs to be saved in preferences before meals can be generated.
 - Invalid inputs are accepted for age, weight, height, and name.
 - Footer links on the landing page do not link to anything.
 - The naming convention for some AI-generated food items differs from the menu item names (eg. 'Apple slices' vs 'Apple').
- Omissions:
 - Total calories/macronutrient consumption for the day is displayed in the history section and is missing from the food diary.
 - The quantity of recorded meal items cannot be altered seamlessly but can be recorded twice. The default quantity is one serving (defined by UCSC dining).

Product Backlog:

- As a student who pays attention to their diet, I would like to be notified/warned if I exceed my daily caloric/macronutrient goals and be provided with suggestions for adjustments.
- As a student who eats frequently at UCSC, I would like to be able to view the menus and record meals from the on-campus cafes, restaurants, and markets.
- As a student who pays attention to their diet, I would like to see a summary of my day of eating and be given suggestions on improving.
- As a student who goes to a different university, I would like to use NutriHall to record meals at my dining halls.