Project Journal

Devam Patel

Project Proposal Documentation

Friday, April 26th:

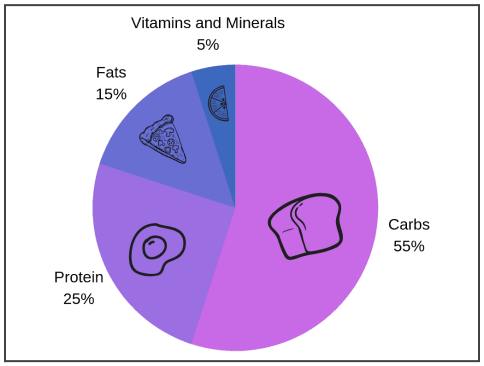
- First project meeting was held viz Zoom. During the meeting we discussed different dashboard application ideas and corresponding API ideas.
- Planned out additional meetings and the structure of the project as we begin working on the final project.
- Split up workload for the final proposal project.
- Next meeting is planned for Sunday, April 28th.

Saturday, April 27th:

- Begin working on the final project proposal slides.
- Researched multiple APIs in regards to Food and Nutrition.
- Started working on slides of three API research:
    - FoodData Central: https://fdc.nal.usda.gov/api-guide.html
    - Edamam Food & Grocery Database: https://developer.edamam.com/food-database-api
    - Google Maps API: https://developers.google.com/maps/documentation

Sunday, April 28th:

- Worked more on final project proposal slides together.
- Researched some cool features regarding food and nutrition and how we can visualize the data. Most common was the pie-chart visualization of macros in a food item:



- Discussed a bit about our project stack. We plan on working with React and JavaScript primarily. Once we learn more about charting libraries from class lectures, we will add them to our stack.
- Created multiple wireframes for different screens of our project using wireframe.cc: https://wireframe.cc/

Thursday, May 2nd:

- We were asked to revise our additional API research to find APIs which complemented our food and nutrition API.
- Researched some additional APIs which could support our food and nutrition dashboard application.
    - New APIs:
        - Recipe Search API: https://developer.edamam.com/recipe-demo
        - Nutrition API: https://www.nutritionix.com/business/api
- Added additional slide to showcase demo of using the researched APIs.
- Completed labeling part of the wireframes to indicate what elements on each page do.
- Spent some time adding images to the presentation to make it attractive.

Saturday, May 4th:

- Did some research for possible tech stack:
    - React JS for UI
    - Fetch API calls
    - NextJS for navigation
    - Tailwind CSS
    - Chart JS

Sunday, May 5th:

- Researched on tech stack:
    - Angular for UI
    - Fetch API
    - Next.js Router for navigation
- Worked together to finish the final slides. Split up parts of the presentation.
- Researched tech stack ideas and finalized on our current stack.

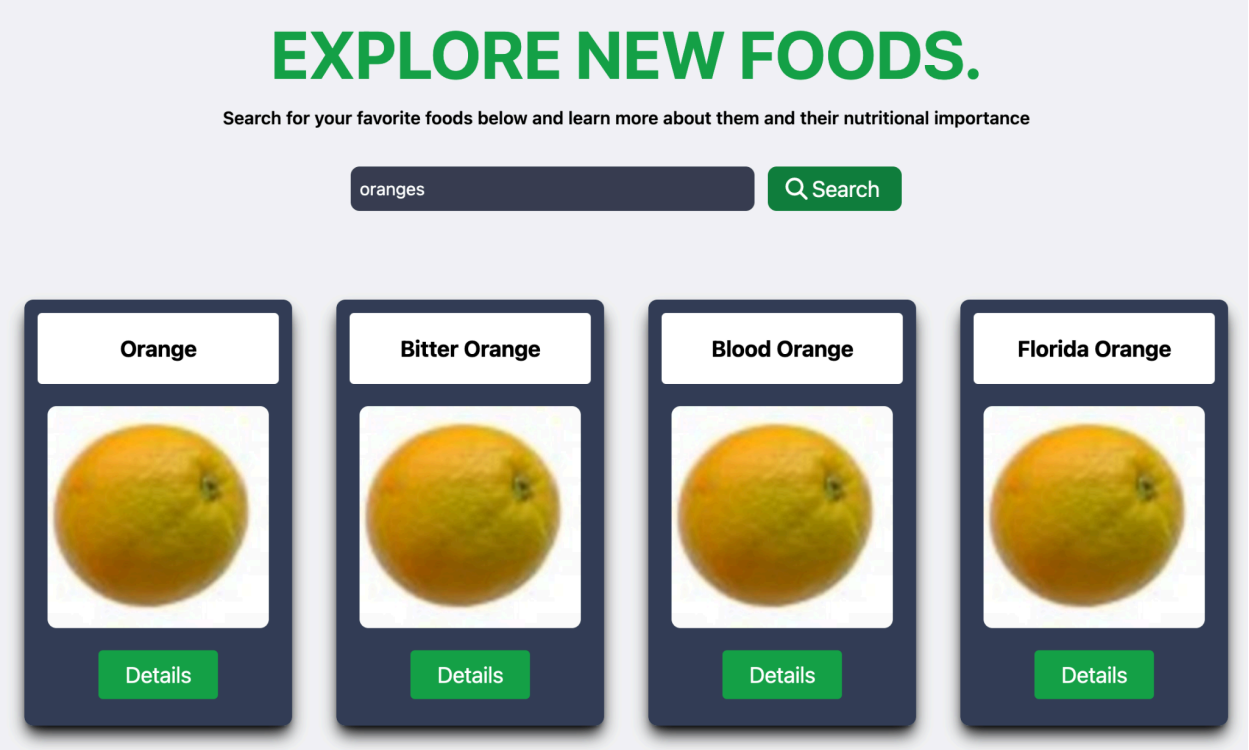
Project Implementation Documentation

Wednesday, May 8th:

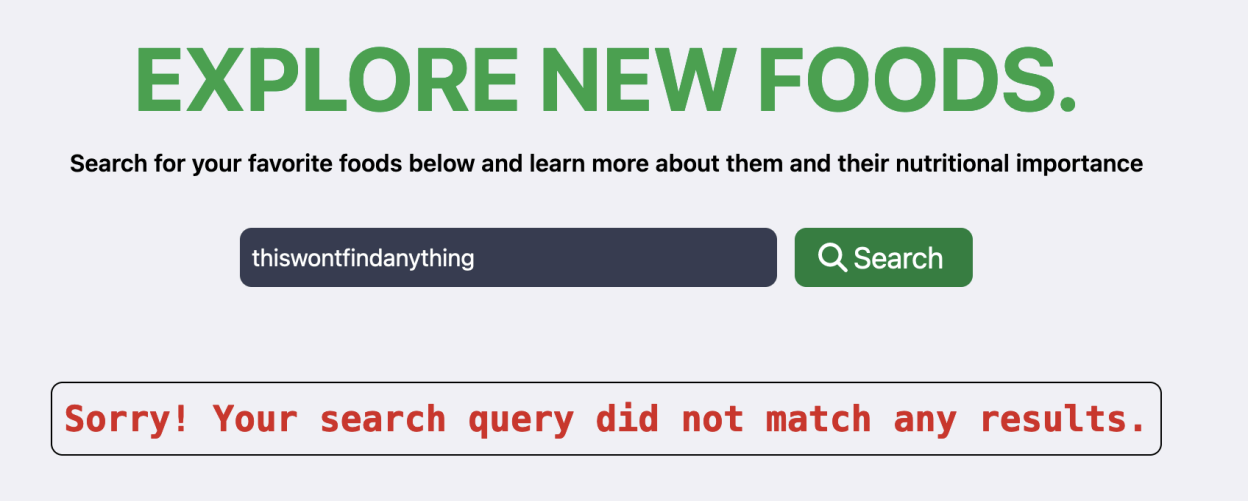
- Setup react app through next.js, loaded tailwind, and setup routing.
- Researched different design ideas for dashboards and experimented with various tailwind classes.
    - Tailwind Docs: https://v2.tailwindcss.com/docs
    - Dashboard Ideas: https://dribbble.com/search/dashboard
    - NextJS Routing: https://nextjs.org/docs/app/building-your-application/routing
- Finished side navigation bar and linked routes to different pages of the application.

Tuesday, May 14th:

- Worked on UI design for the food search page. Added new routes, designed card elements to display food items, linked application to Edamam Food database.
- Sample search of oranges:

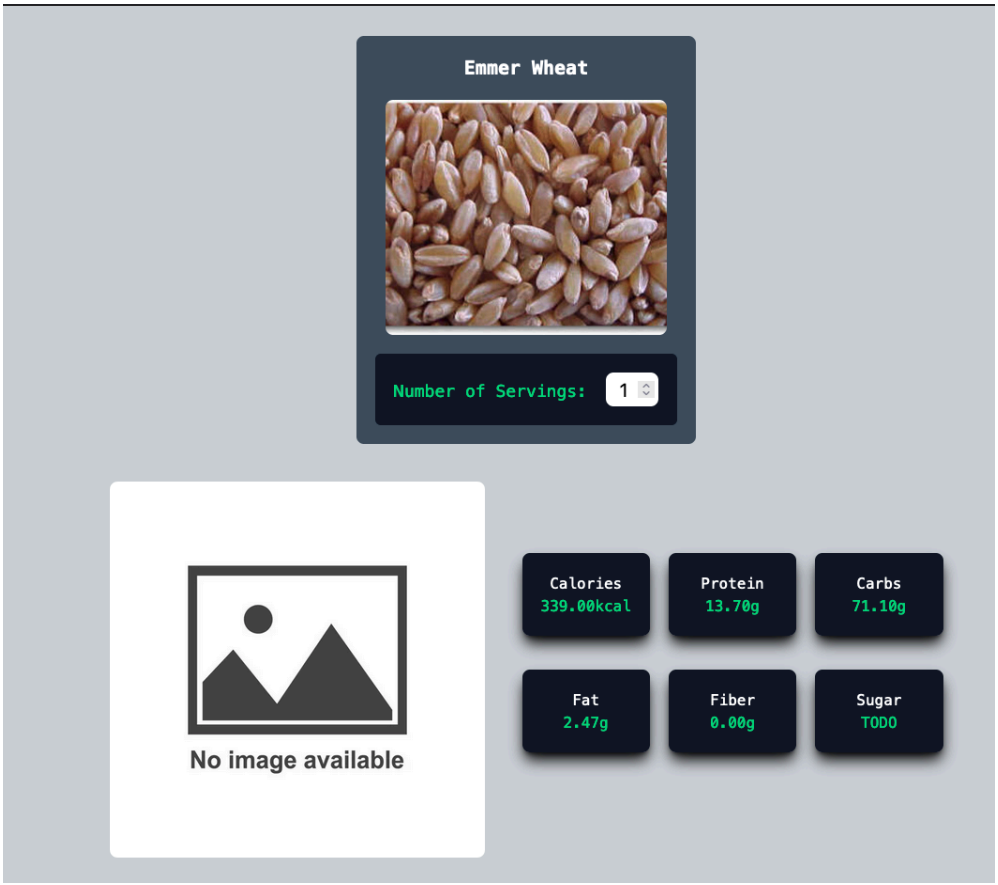


- Sample error page for unmatched search query:



Thursday, May 16th:

- Designed and implemented the more info page for when the user selects a food item. Work is still in progress, here is an example:

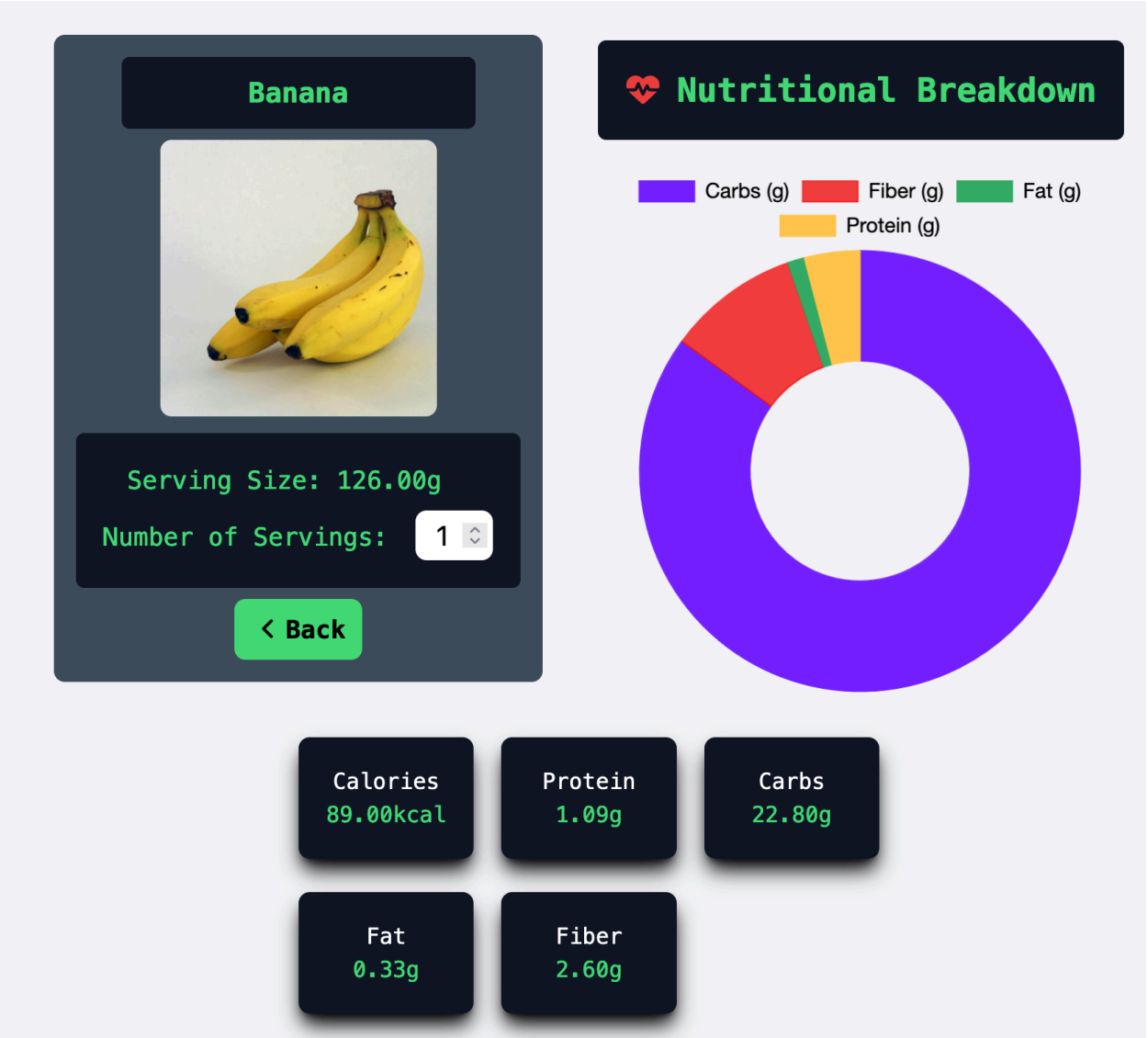


- Setup the code to fetch nutrient information about the specific food selected by the user, using the /nutrients endpoint of EDAMAM API.

- Researched how to pass parameters through URL. Used <Link> and UseSearchParams hook.
    - https://nextjs.org/docs/app/api-reference/functions/use-search-params
    - https://nextjs.org/docs/pages/api-reference/components/link
- Next I will begin working on generating the pie chart of macronutrients for the given food item.

Tuesday May 21st:

- Continued to work on finishing the more-info page for food-search. Here is the finished product:

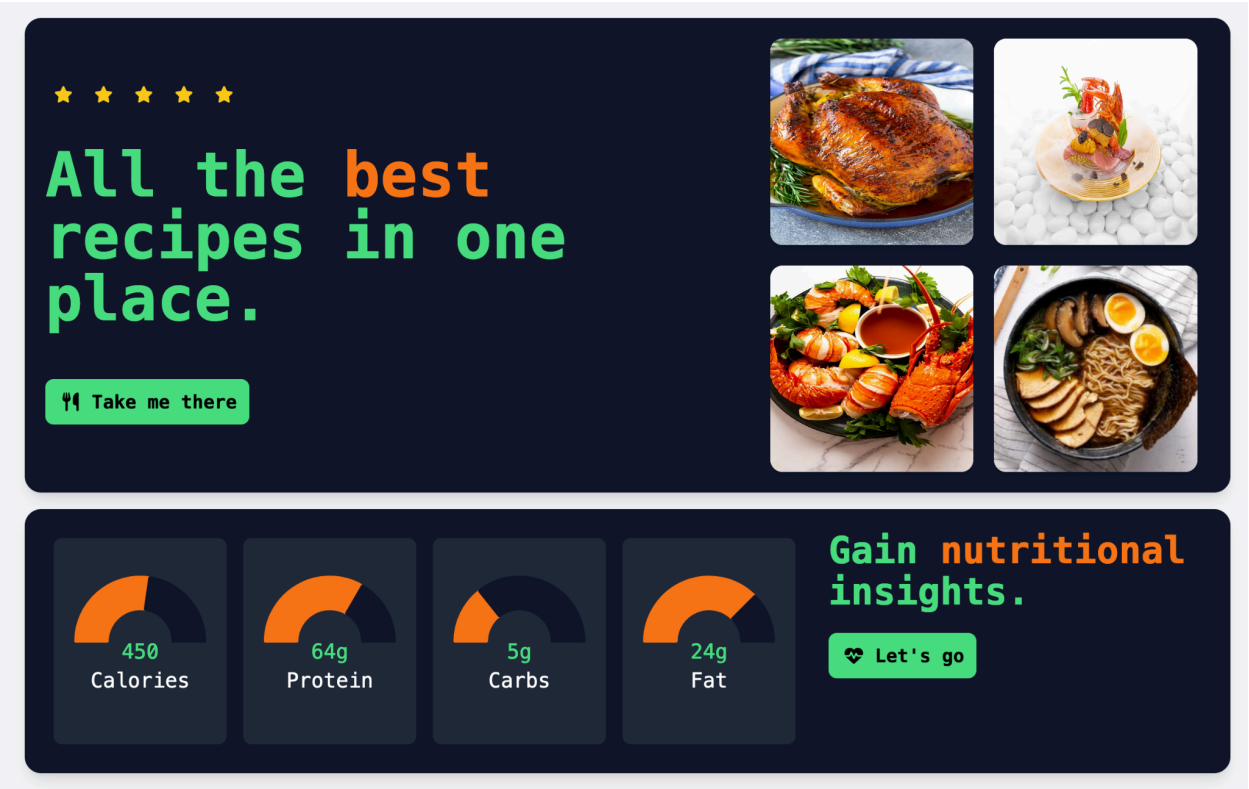


- Data is fetched correctly from the API and displayed accordingly.
- User can also change the serving size and the macronutrient data will be reflected accordingly.

- Used the doughnut chart from chart-js2 to build the infographic.
- Added icons from fontawesome: https://fontawesome.com/

Wednesday, May 22nd:

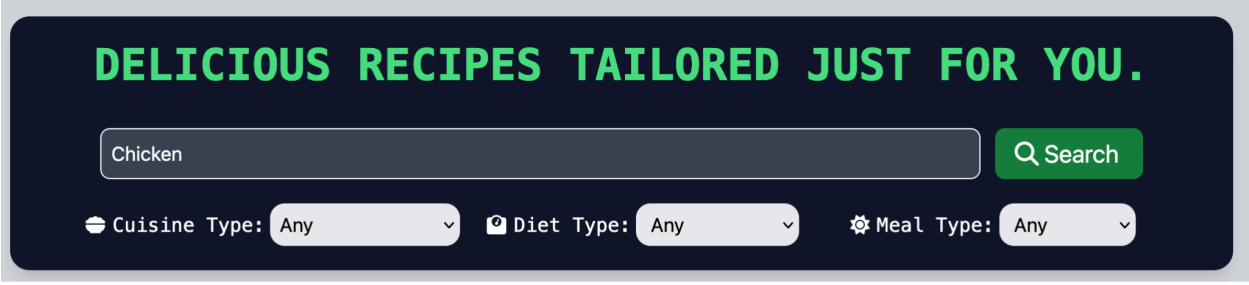
- Designed some ideas from the home page.
- Implemented the new design of home page, here is the result:



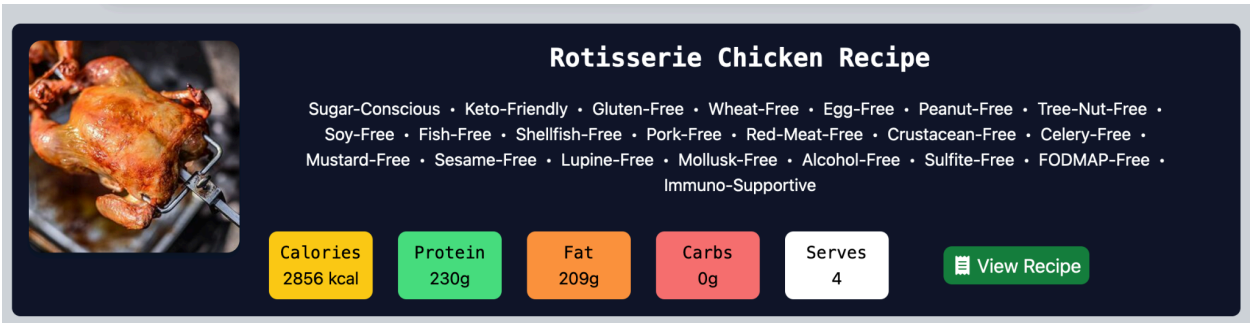
- Used chartjs doughnut chart to make the gauge meters to display macronutrients.
- Added simple images from google images to show food items.
- Added buttons to link to recipe and food-search pages.
- Made the home page more responsive.

Saturday, May 25th:

- Designed and implemented the recipe page.
    - Looked at some designs on here to get inspiration: https://dribbble.com/tags/dashboard-recipe
- Designed a search menu similar to food-search page, with additions of filters for cuisine, diet type, and meal time.

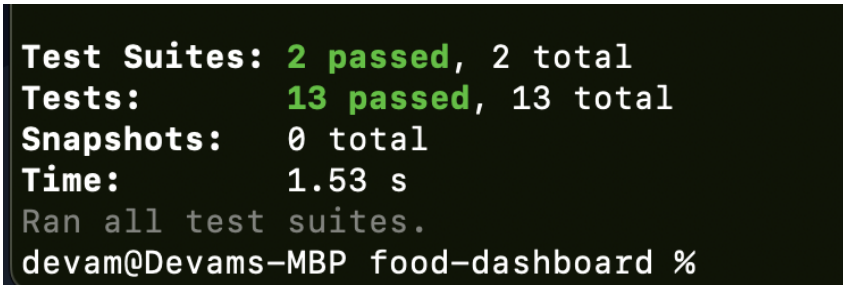


- Designed card templates to display the recipe results.
- Fetched recipes from Edamam Recipe API endpoints and used documentation to parse data: https://developer.edamam.com/edamam-docs-recipe-api
- Used https://jsonformatter.curiousconcept.com/ to view API responses in a clear JSON format.
- Added the fetched data to each recipe card along with name, image, food-labels, macro information, and a link to view the recipe.



Wednesday, May 29th:

- Researched various react testing library.
- Followed the Nextjs Jest setup guide to add jest to our nextjs project: https://nextjs.org/docs/app/building-your-application/testing/jest
- Completed writing unit tests for Recipe and Home components. 13 tests in total.
    - Docs: https://jestjs.io/docs/getting-started



Tuesday, June 4th:

- Final presentation in class.