Team pICKAx

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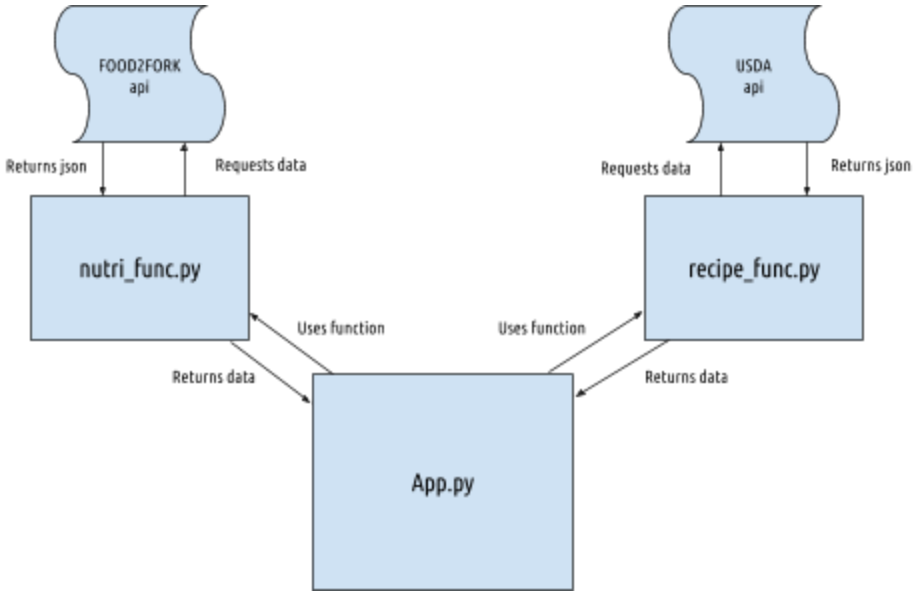
Project Title: Granny's Cookbook

Description: You can input the amounts of nutrients you want and a recipe(s) is generated. The missing and extra macros are displayed.

Component Map



Python

- app.py: generates HTML pages, manages redirects, routes, uses functions from nutri_func and recipe_func
- nutri_func.py: makes requests to the USDA API to retrieve information about specific ingredients, calculates nutritional value for correct amount of ingredient
- recipe_func.py: makes requests to the FOOD2FORK API to retrieve recipies based on form input

JSON/APIs

- FOOD2FORK api:
    - https://food2fork.com/about/api

    - List of recipes based on a search
    - Recipe info
- One of the nutrient APIs (We're still deciding which one works best)
    - Ex. USDA Food Composition Databases / XML format

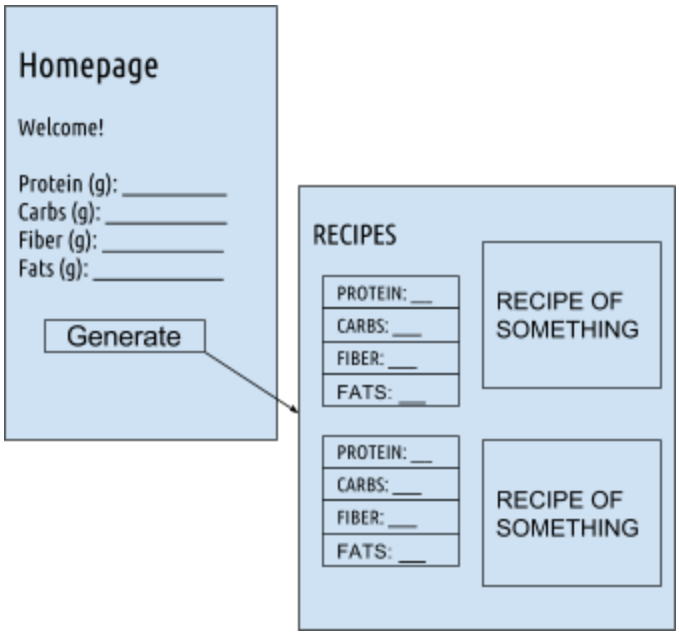
HTML

- index.html: form with text inputs that allow user to specify amount of protein or other nutrient, submit button that sends a POST request, then access recipe API functions to retrieve a recipe, then calculate nutritional value for that recipe, display all the information on the page
- result.html: displays the recipe(s) generated by the FOOD2FORK api and the amount of nutrients that the given recipe still lacks to meet the desired values (expressed by negative & green numbers) or the amount that it exceeds (expressed by positive & red numbers)

Foundation

- formatting for index.html and result.html

Site Map:



Roles:

- Adrian: Project Manager + recipe_func.py
- Iris: front end (html+css) + app.py
- Karen: front end (html+css) + app.py
- Connie: nutri_func.py