

Updated Project Plan

Inputs:

1. Daily Calorie Counter:
 - Calories consumed in a 1-day period
2. Weekly Calorie Counter:
 - Calories consumed in a 7-day period
3. Monthly Calorie Counter:
 - Calories consumed in a 7-day period, 4 weeks maximum of input

Outputs:

1. Simple calculator for day and week calories consumed. Visualization for monthly calculator, including average, and total for each week
2. You are eating too many calories. You will get fat! (if total calories per week is greater than 19000) – for monthly calculator
3. You are eating far too few calories. You will become anorexic. (if total calories per week is less than 8000) – for monthly calculator

High-Level Algorithm (step by step, plain English no Python!):

1. Install API Nutritionix into user's computer
2. Imports
 - Pandas: Display
 - Os: System
 - Requests: API
 - Json: API
 - Pickle: Stores previously entered data
 - Pprint: Prints API output on separate line
 - Nutritionix: API
3. Functions
 - ID: Get food ID based on user input of a food name
 - Nutrition: Get nutrition information based on user input of food ID
 - Daily:
 - Ask user for calories consumed input

- If nothing entered, print total calories
- Weekly:
 - Start total calories consumed at 0, increase as users enter calories consumed
 - Start day count at 0, increase by 1 each day a user inputs calories
 - If nothing entered for day, print total calories
 - If 7 day count reached, print total calories
 - Anything else entered (not a number), print total calories
- Get Calories:
 - First function in monthly calorie counter
 - Ask user for calorie input, must be above -1 and less than 50,000; if not, print invalid amount
- Get Week:
 - Ask user to input a week they would like to add calories to in the chart
 - Call the Get Calories function to ask for users to input each days worth of calorie intake in a week
 - Calculate total calories consumed in a week
 - Calculate average calories consumed a week
 - If total calories is more than 19,000, print the user is consuming too much
 - If total calories is less than 9,000, print the user is not consuming enough
- Monthly:
 - Start with four weeks
 - Set chart visualization information (i.e. days, total, week, etc.)
 - Ask user for week number they would like to edit
 - Ask user to enter calories for each day in the week they selected
 - If the user quits the program, dump the data entered into a pickle file to save it
 - If anything other than numbers are entered, quit the program
 - When the user re-loads the program, try to get information from pickle file
 - If program can't get information, start with four empty lists resembling four empty weeks

4. Main Program(s)

- Call ID function to get user input and output food ID
- Call Nutrition function to get user input and output food nutritional information
- Call Weekly function to get user input and output total calories consumed in a day
- Call Monthly function to get user input and output total calories consumed in a month via a table visualization