Safe^2

Team Curly-Guacamole:
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Timeline

12/6/16 - HTML Templates (basic design), Database setup, app.py routing
12/7/16 - auth.py
12/9/16 - Bootstrap implementation
12/10/16 - add.py, get.py, Complete basic functionality
12/11/16 - Code debugging, Finishing touches

Components

Homepage

- Has a Bootstrap jumbotron describing what the search bar can be used for
- Search bar for the nutritional value of a certain food/meal from a restaurant
  - Uses the nutritionix API ([Nutritionix](#))
- Tells site visitors what features are offered if they sign up
  - BMI Calculator (BMI [API](#))
  - Calorie tracker
- Register/login button in the navbar which will be on the top

User Accounts

- Users can register and login through the authenticate.html page
- After they are registered, their credentials will be stored in the users table in the database
- When users register, they can enter in their gender, height, weight, and age so that the other features of the website such as the BMI calculator will work

Profile Page

- Users can update their gender, height, weight, and age here
- Users can keep track of their BMI here
  - Will be calculated based on the gender, age, height, weight
- The total calorie count will also be displayed here for the most recent dates based on meals that the user has inputted
- Users can enter in a meal and based on that meal, the nutritionix api will try to find the calories for that meal and add that to the total calorie count for the day in users.db

BMI Calculator

- BMI can be displayed on the profiles page

- Uses the BMI api to calculate the BMI of a user based on gender, age, height and weight

Calorie Tracker
- Based on the inputted meal, the nutritionix API will find the calories for that meal
- The meal name will be stored in calorie_count table and the calories will be added to the total calorie count for the day
- On the user's profile page, the total calorie count for the most recent dates will be displayed
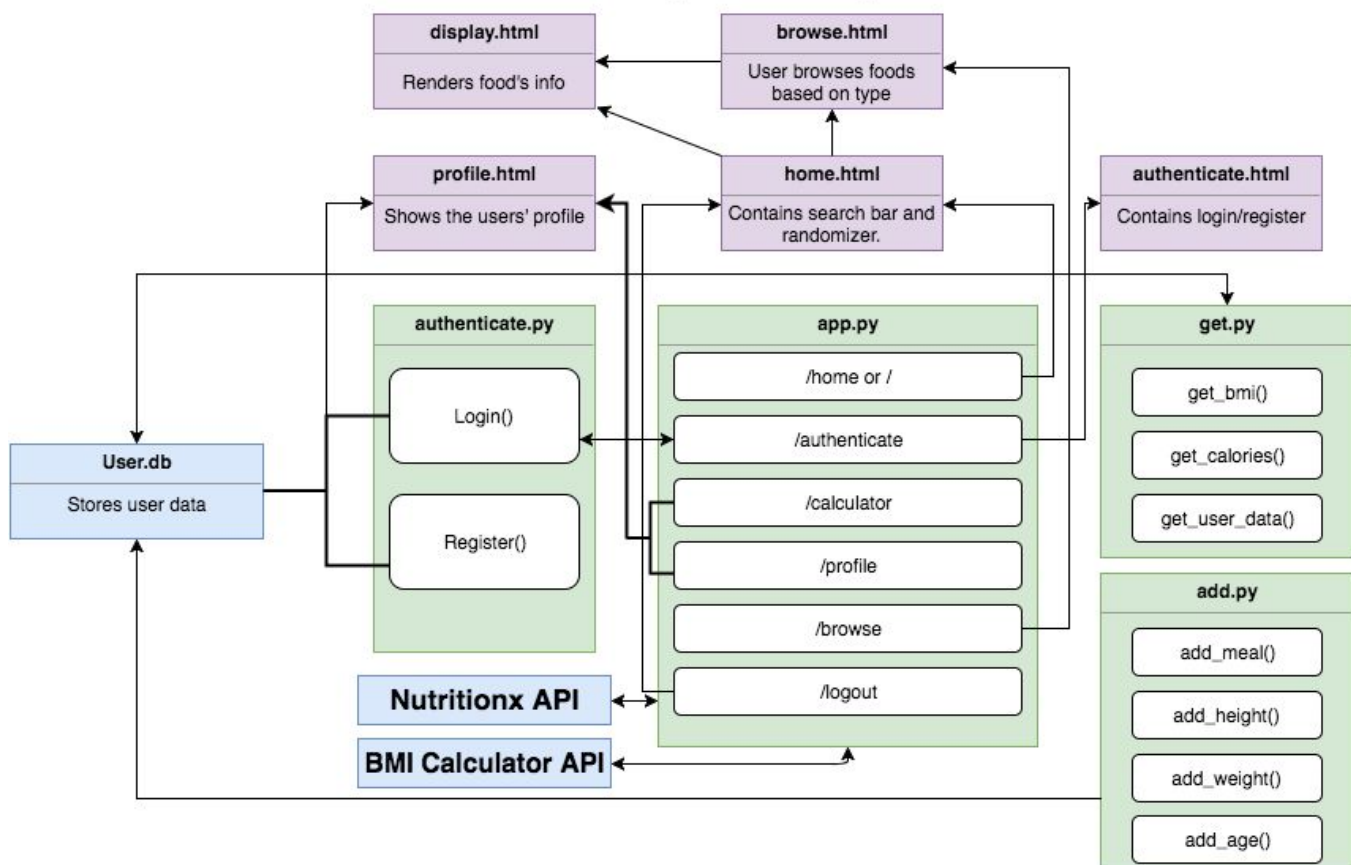
Food Group Page
- Displays a list of food groups as well as meals that correspond to those food groups

APIs
- Nutritionix API
  - Takes the name of a food/meal, returning the number of calories in the food/meal
- BMI API
  - Takes gender, age, height, and weight to calculate BMI

Component Map

File Structure

```
app.py
templates/
    -   home.html
    -   browse.html
    -   display.html
    -   authenticate.html
    -   profile.html
    -   logout.html
utils/
    -   auth.py
    -   get.py
    -   add.py

data/
    -   users.db
static/
    -   bootstrap
    -   jquery
```

Database Schema

users.db

- user_credentials
    - Stores the username and passwords of users

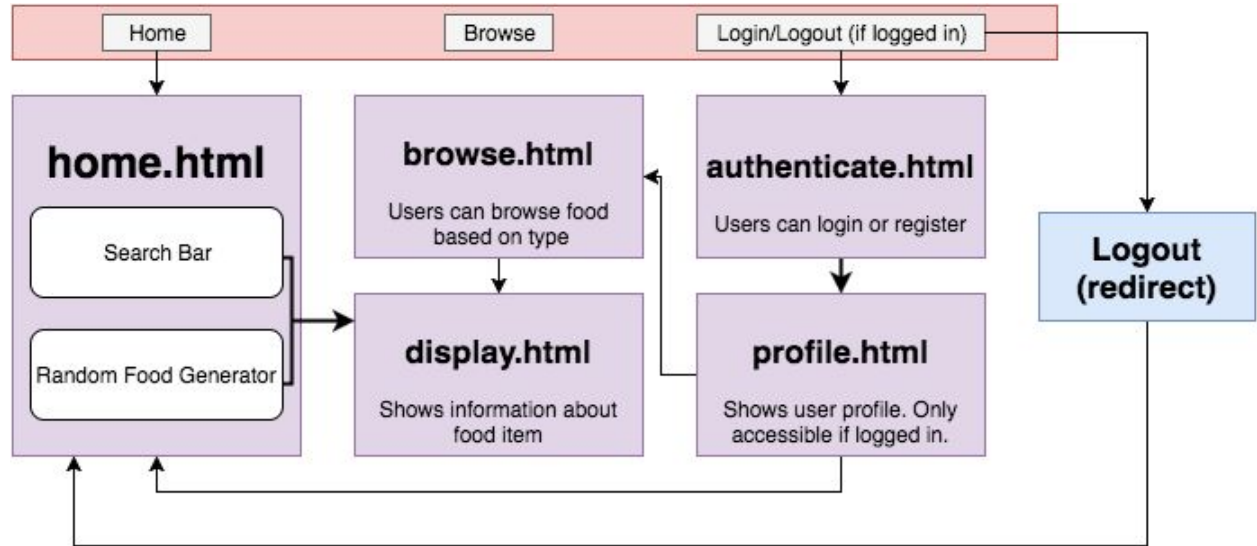| username	password

- calorie_tracker
    - Stores the username, the meals that users input, the date for the meals, and the total calorie count for every day for each user

username	date	meals	calorie_count

- user_diagnostics
    - Stores the username, gender, age, height, and weight of users

username	gender	age	height	weight

Site Map

Task Delegation

Frontend(ish): Amy Xu, Shaeq Ahmed
- Works using Bootstrap to design the site
- Customizes CSS
- Creates flask templates and deals with redirection
- Ensures processed data renders properly on website

Backend: Brian Yang, Jason Chua
- Stores the login credentials of users who register
- Accesses and updates database
- Gets data from database to compare with login input
- Accesses BMI Calculator API and uses it to retrieve its data
- Accesses Nutritionix API when user searches or browses for a food item

Project Manager: Jason Chua
- Ensures that the group stays on track and completes parts in a timely manner
- When necessary, supplements work on the frontend/backend
- Resolves conflicts between members