

R1: Description of your website, including:

- Purpose
- Functionality / features
- Target audience
- Tech stack

Purpose:

Primary Purpose:

The primary purpose of this application is to monitor the calorie intake of food when consuming. When monitoring the intake of calories a person can manage their health a bit more consistently. This application can assist in weight gain or weight loss. The application's main function is to allow a user to input a keyword into a search engine then the result will return the calories of the food item. This application will record that item's data and calculate a summation of the day's calorie intake. It will further notify the user when they are close to their quota.

Functionality / features:

Considering the level of competition in the industry already the functionality is key to the success of the product. The program needs to be as simple as possible. The user will enter a sentence into a search field where a result will be displayed. The aim is to have more than one result then the user will select the closest option to their scenario.

Another added feature that will be attempted to implement is also to send recipe's of food that can be cooked that can keep the user under the quota, for example, if the user's calorie intake is 2800 calories and they're currently sitting on 2200 calories the application's search engine can find a recipe for a meal that can be cooked that can keep them under the quota for the day which in this example would be less than 600 calories. Also there will be other data given such as fat, carbs and protein in the particular food item. This is useful for body builders that may want to increase their protein input. In fact it could be possible to monitor a large proportion of nutrients and ensure that the user is receiving their recommended daily intake.

Possible optional features are the user to take measurements and record the measurements into the application where the data can be analysed and displayed in graphs to show progress. This will be optional. Recordings can be pinch tests, weight on scales and tape measurements. Also recordings of physical activities.

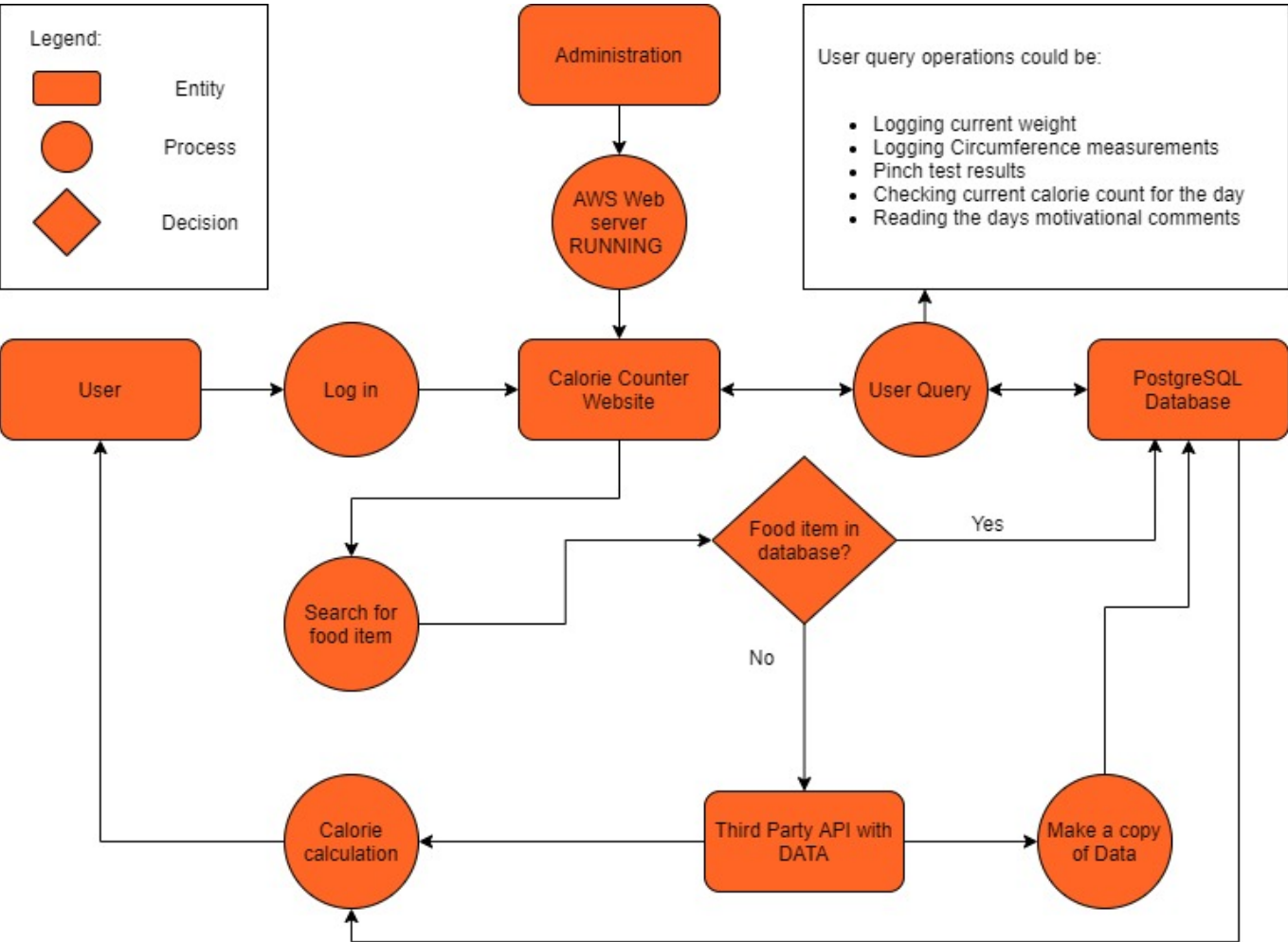
Target Audience:

The most obvious are tech students that have been studying for 40 weeks and let themselves go. The general target audience will be adults who either want to reduce their calorie intake to lose weight or adults that might want to put weight on. Someone who wants to lose weight could set the quota to 2500 calories for the day yet a body builder might want to set the quota to 3500 calories. So all general adults who want to lose weight, adults that want to grow muscle and athletes. It could be used by all people who want to keep a healthy well balanced diet.

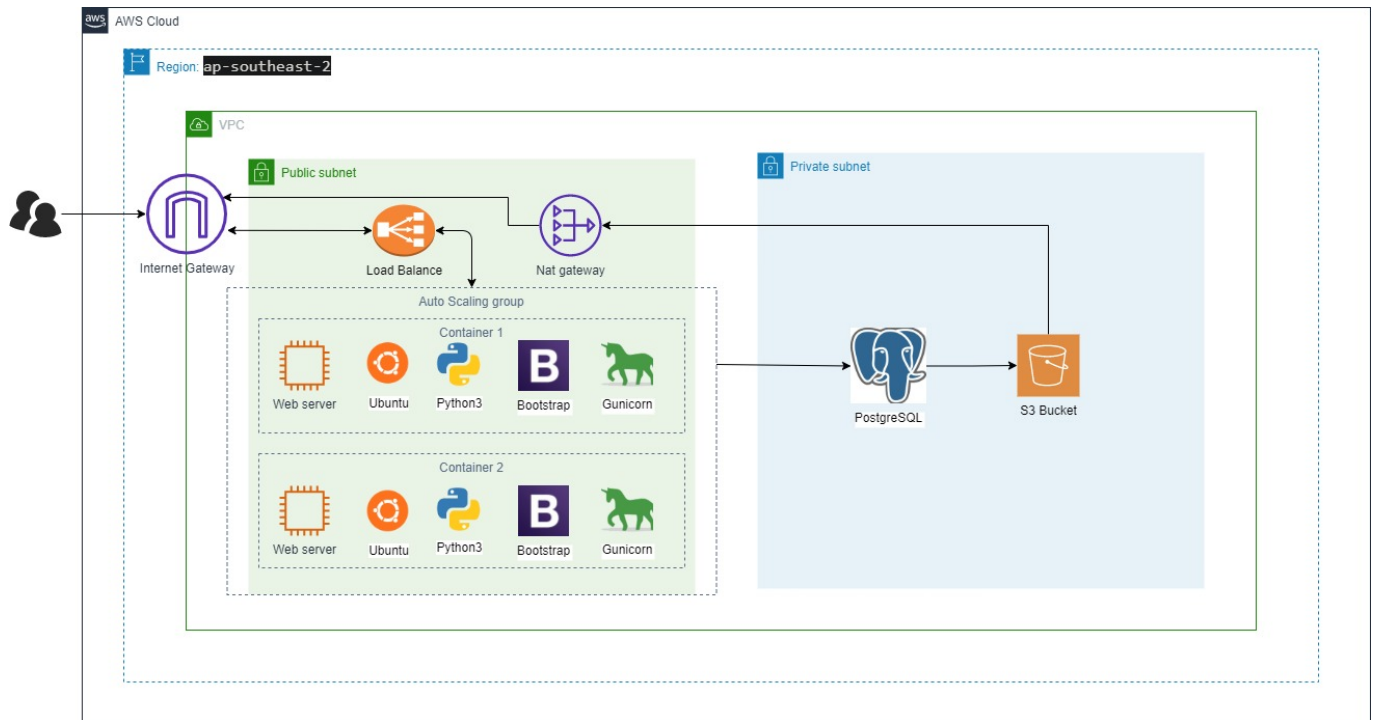
Tech stack:

Server-side	
Web Framework	Flask
Programming language	Python
Database engine	PostgreSQL
Database storage	AWS S3 bucket
Web Server	AWS EC2
Operating system	Ubuntu:latest
Client-side	
Web page language	HTML
Formating	CSS
Templating language	Jinja2/Bootstrap

R2: Dataflow diagram



R3: Application Architecture



R4: User Stories

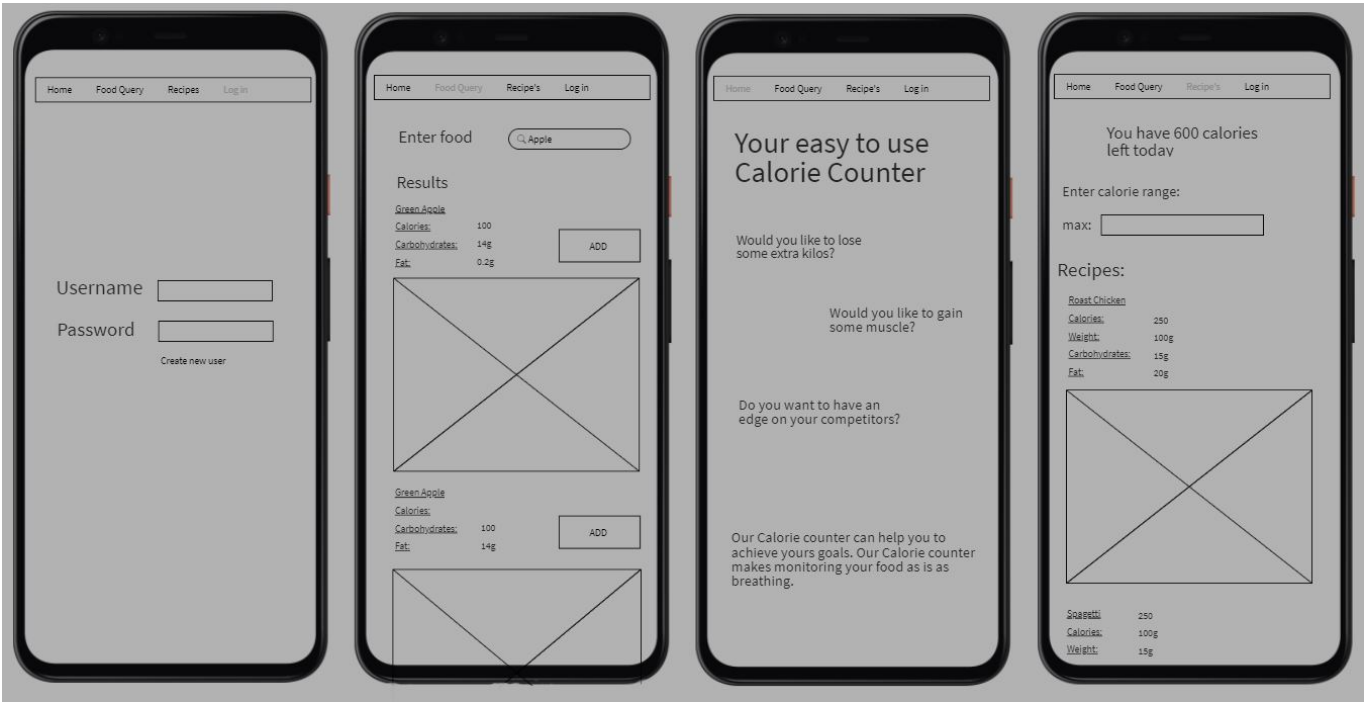
Following the Agile methodology, user stories are used to guide the project's progress. The user stories give just enough information to give the project direction. A user story describes the target audience, the what and the why. Often companies can get bogged down on static production. Using Agile methodology and user stories gives flexibility and dynamic creation as the project transforms.

- **As a user I want to** count my calories **So I can** manage my health more consistently
- **As a user I want to** record my results **So I can** stay motivated to eat healthy
- **As a user I want to** find recipes that are filling and low in calories **So I can** lose weight
- **As a user I want to** find recipes high in protein **So I can** gain muscle
- **As a user I want to** save time researching healthy living **So I can** spend more time enjoying living
- **Given** other users have succeeded **When** using the calorie counter **Then** I can succeed
- **Given** I still have calories spare **When** this day ends. **Then** I might splurge on a treat
- **As a developer I want to** auto scale my website **So I can** reach more people when necessary
- **As a developer I want to** set up CI/CD pipeline **So I can** update any bugs when necessary
- **As a developer I want to** deploy the website on the cloud **So I can** save money on hardware

R5: Wireframes for multiple standard screen sizes, created using industry standard software

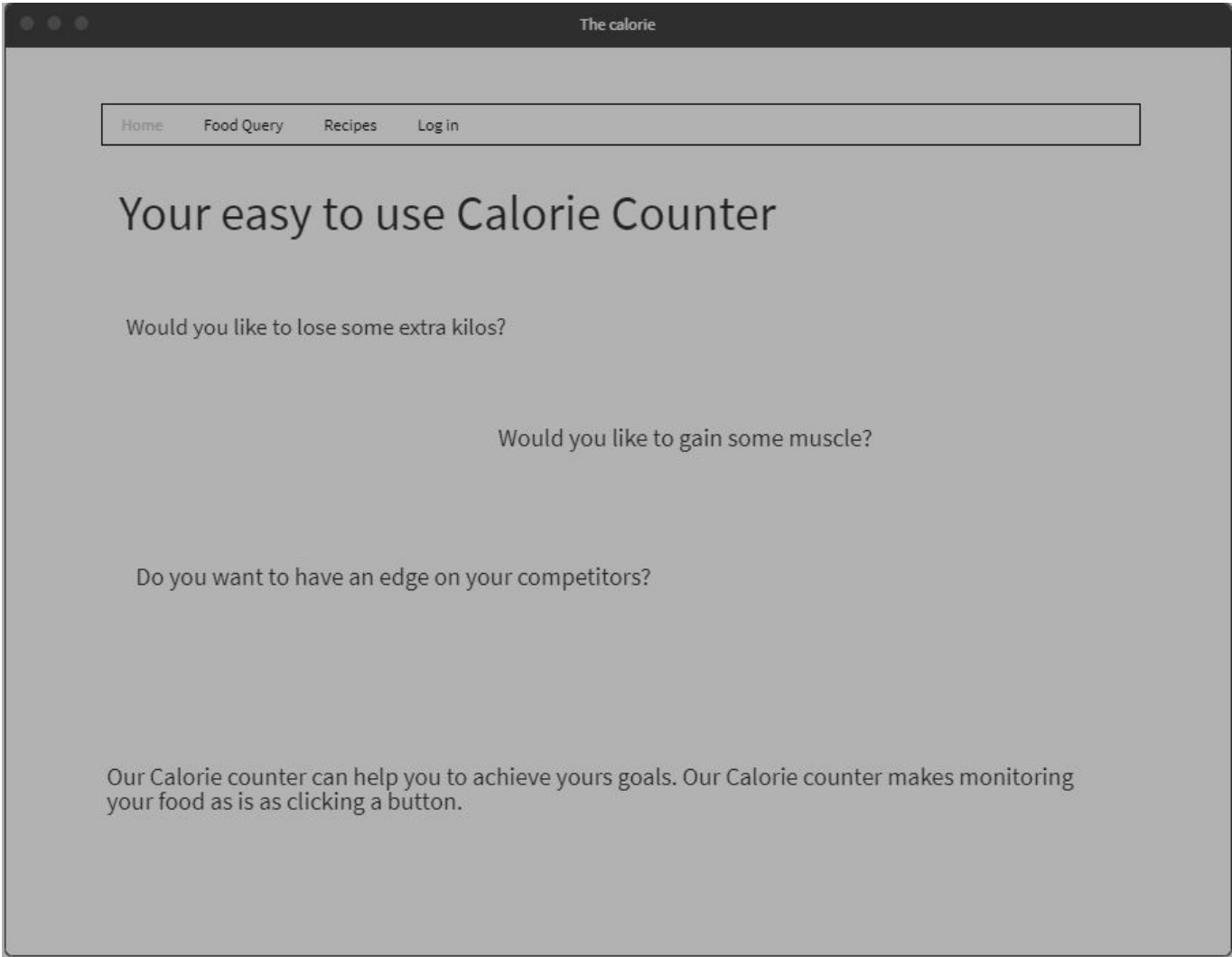
All wireframes were designed using Mockflow. Mockflow is a UX/UI designer application that has the ability to design Wireframes. Across many websites such as capterra.com have given the software a review of 4/5 stars on average yet sample sizes are small. I will assume that this software is great considering it has a free component and what you can achieve with the free component as given in the examples below. I assume that this is industry standards. Considering I am both the developer and user of this software. I will be taking in the Agile methodology of aim for an end goal and make alterations as the project progresses.

Mobile WireFrames:



Desktop View

Home Page:



Log in:

The calorie

Home

Food Query

Recipes

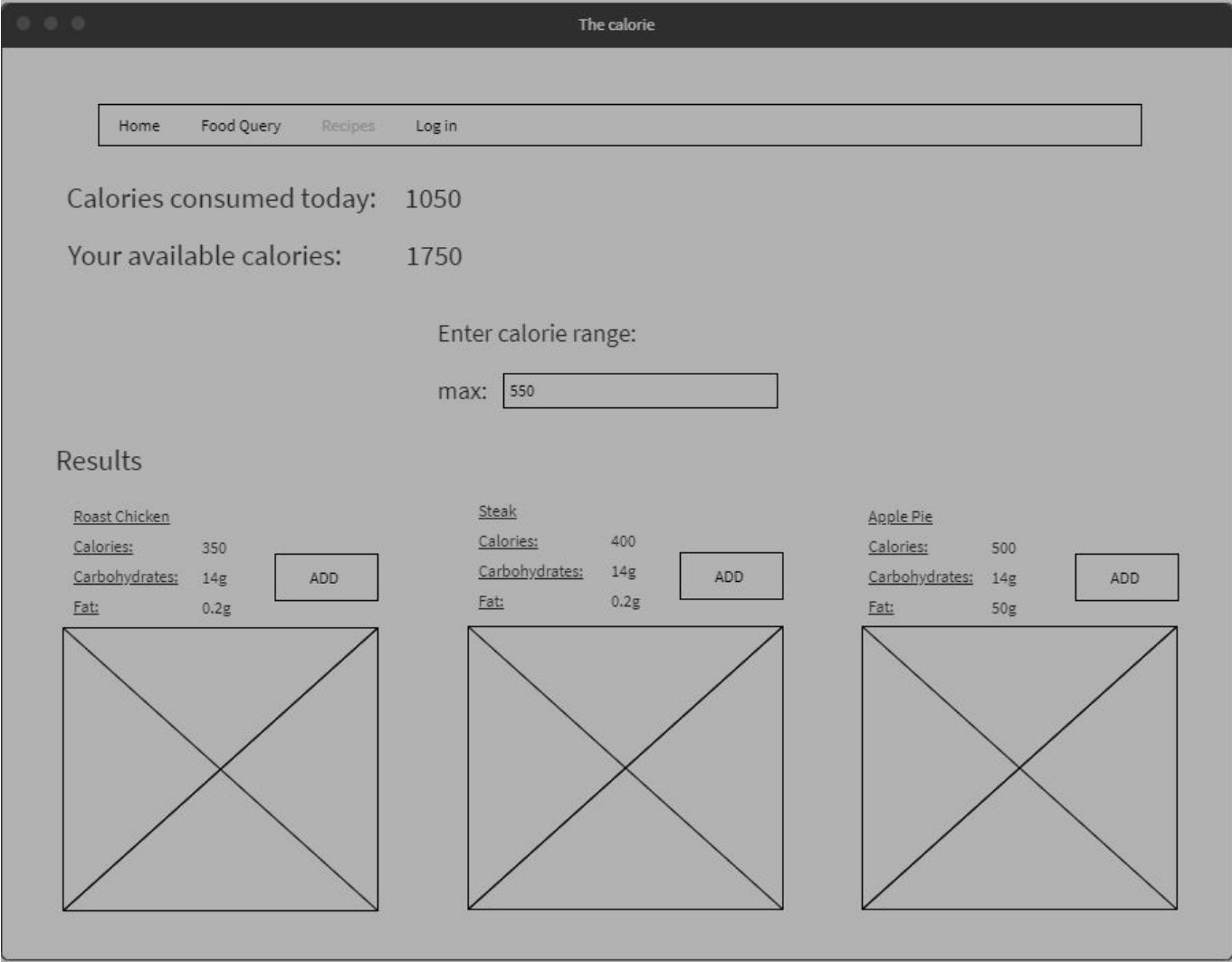
Log in

Username

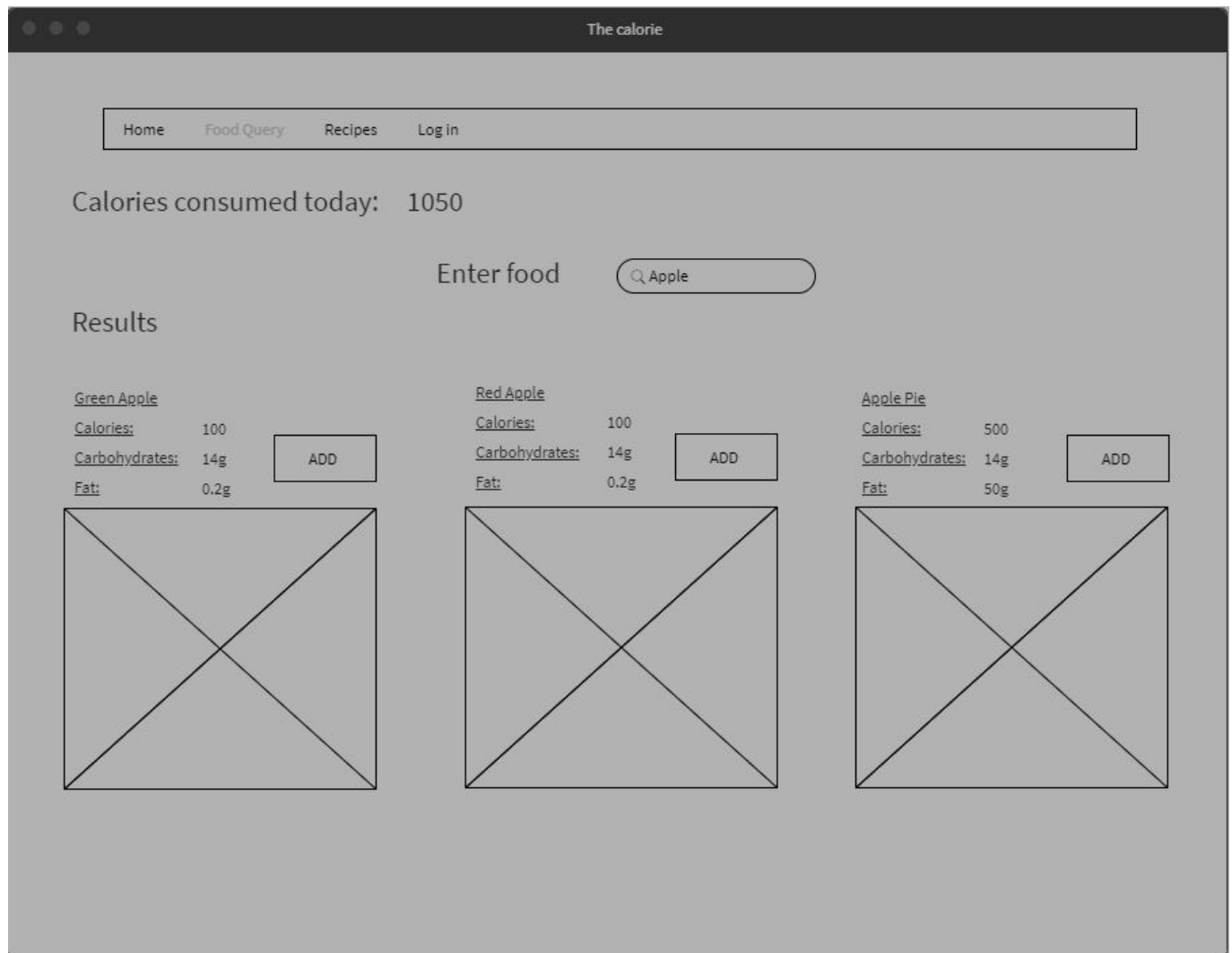
Password

Create new user

Recipes:



Food query:



R6: Screenshots of your Trello board throughout the duration of the project

Ideally the agile methodology would be considered when working in teams. As new ideas arise they can be placed into the to-do list as seen in the below images. Their would be a team collaboration before placing it in the to do list. Considering no code has been written yet there has not been any changes added. When the new trello board is created for part-b I will be adding an optional think tank box or ideas box to bring up with the users to ask for feed back. Then may make changes.

