NutraLink

Manjusha Chava, Veronika Enis, Yuxiang Mao

Motivation

The purpose of this app is to show the concentration of various nutrients in produce. When shopping in a store, fresh produce is usually doesn't have labels, and people do not know how much of each nutrient can be found in the food. This makes it difficult for people who have deficiency and need to find foods containing the nutrient they lack.

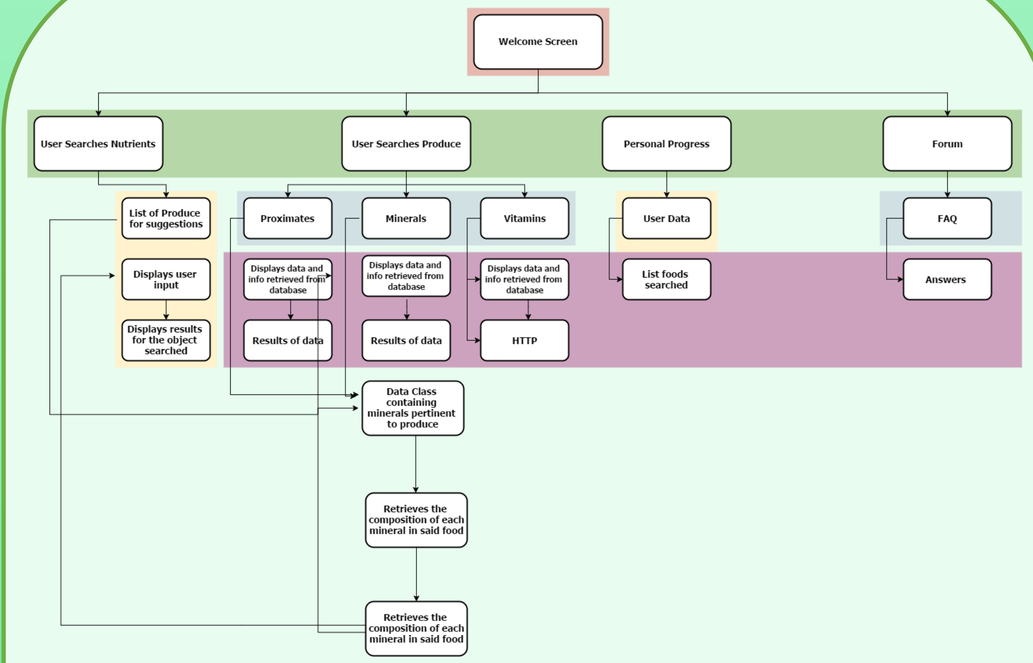
Competitors

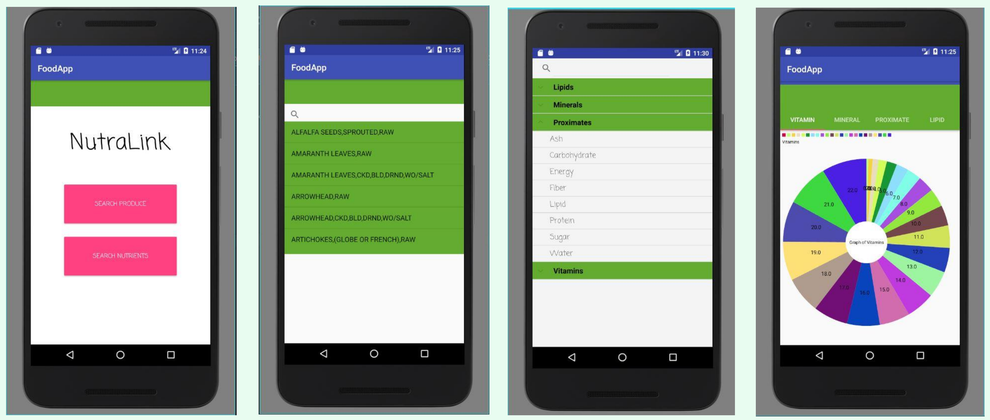
At the moment, there are no apps with the same function in the market. Many apps give food related information, such as Fooducate, but these apps don't focus on giving nutrient information. The USDA has a database that gives this information. However, the database is not user friendly and needs internet access to work.

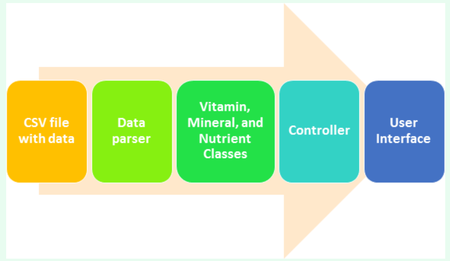
Description

The MVP of this app is that this app will:

- Allow the user to search for a produce and show the vitamin and nutrient concentrations of the produce through a graph
- Allow the user to search a nutrient and show the produce that contains that nutrient







3rd Party Tools

The following 3rd party tools were used in the creation of this app:

- Android Studio
- GitHub

Major Algorithms

- Java was used to create the backend of the app
- Proximate, lipid, vitamin, mineral classes were made. These classes contain the fields for all the data.
- A food class was created. The food class contains getters for the proximities, lipids, vitamins, and minerals.
- A parser was made to read the data from a csv file and populate the food object

Future Extensions

In the future, other features could be added to improve this app, such as having a table below the graph to display the values to show a more detailed information display. One other feature that could be added is the ability to make meals. This would allow someone to find the total nutrition values of a meal instead of to find each individual food.