

Version 0.1

05/09/2018

# Purpose

The purpose of this app is to generate a grocery list for the end user based on recipes and meal frequencies they have selected. The app will also suggest recipes based on the users current list of groceries they have at home. Hopefully a byproduct of this feature will be to help improve reduce the amount of food that is being wasted in the users kitchen. If a user creates a habit out of using this app, they will notice a reduction in food waste in their own kitchen.

Flowchart (need to create actual flowchart)

* User creates an account
* User goes through walk-through
  + Which days this week do you plan to make breakfast at home?
    - Mon-Sun, N/A
  + Which days this week do you plan to make lunch at home?
    - Mon-Sun, N/A
  + Which days this week do you plan to make dinner at home?
    - Mon-Sun, N/A
  + Create your own breakfast and add ingredients or search for one and add to days you want to have this for
  + Create your own lunch and add ingredients or search for one and add to days you want to have this for
  + Create your own dinner and add ingredients or search for one and add to days you want to have this for
  + Present user with list of groceries they need to get for the week
    - Checkmarks for each one
    - Checkmark in case they have ingredient already
  + Tool will notify user when food is close to expiring
  + Tool will suggest recipes for user for food that is close to expiring

# Design

## ~~Theme Colors~~

~~Turqoise~~

* ~~#018ca1~~
* ~~RGB: 1,140,161~~

~~Brown~~

* ~~#8f6500~~
* ~~143,101,0~~

~~Yellow~~

* ~~#efe53d~~
* ~~239,239,61~~

~~White~~

* ~~#ffffff~~
* ~~255,255,255~~

## Database Schema

Below is a diagram of the SQLite database schema.

(need to re-do diagrams)

## Excel Files

For phase1 the tool will be reading from excel files and will be dumping them into SQLite database. In late phases, the tool will be reading from several other file types. [why?]

## Application Server

For phase 1 the tool will run on Tomcat. For phase 2, I will move the tool over to AWS. [why?]

## Programming Language

Django Python, HTML, and React JavaScript will all be the choice of programming languages used to develop this tool.

Backend – Python

Frontend- JavaScript, HTML, CSS