Meal Planner Project

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# Overview

The general purpose of the application is to create a meal plan that takes into the account requirements of calories, protein, and carbohydrates of the user. This can be achieved through allowing the users to add ‘custom’ meals that will be created by them, through choosing specific ingredient and their amounts. With the use of database that will hold information about nutritional values, program will calculate the calories of the meal and other nutrients. Once the user creates a couple of different meals and gives them a correct label such as breakfast, lunch dinner etc., there will be a possibility of creating a meal plan for a set amount of time, using these meals. Also, when a meal plan in generated, the program will also create a shopping list with the ingredients that will be needed to cook the food.

# Design

## Brainstorm

Menu screen

Has 4 buttons, holds the lists, uses data loader to get json into list array

Meal plan screen

Access to the meals database, allows to enter calories and other amount requirements, based on those create a meal plan if there is enough meals in the database, save the meals from the plan to a list and return to main but also save locally

Meal creation screen

Needs access to the database of foods, save to another database with meals, add and remove ingredients from the meal, calculate nutritional stuff for the meal

Shopping List

Access to meal plan list, sum up the amounts needed, generate a shopping list, no need to save just generate each time, might want to add qr generator for phone or through web

Could think of possibility of adding an ingredient

Might need to add a class for moving data between the screens

## Necessary technologies & tools

Application will be created in Java version 8 language for desktop computers. For the user interface, JavaFX v8 will be used alongside the Scene Builder for faster UI development. Program is going to use two both local and cloud database, for storing the nutritional values of different foods, and created meals respectively, allowing the users to access their meals from not only their local machine.

## Classes

Meal,

Ingredient

Data Loader

Shopping list maker (could be function tho)

## User Interface

Application will be made up of (Menu, Meal creation,

# Testing

Table including all of the tests, their expected and actual outcomes and whether they passed or not.

# Progress record

List of ‘diary’ like entries that track the progress done throughout a coding session.