**Calories Application**



University of Missouri-Kansas City

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**Course:**COMP-SCI 5551

**Class:**Advanced Software Engineering**.**

**Team Members (Team 3):**

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**Calories App**

**Motivation:**

With about 2/3 of Americans being overweight or obese, obesity is a major health concern in the US.1 Obesity leads to many other health complications that account for most deaths in the US.1 A good diet is the basis of a healthy life and weight reduction.2 Maintaining a good diet can be difficult and tracking the nutritional data of the foods consumed can be a large task.

**Significance of Project:**

This application simplifies the process of tracking your consumed foods by keeping the data of the calories consumed through a mobile device or web browser. Users will be able to use voice recognition technology to input the information about the consumed foods. The application then retrieves the nutritional information of those foods and stores it in a cloud server.

**Scope of Project:**

* The project will utilize existing food databases to interpret the input meals
* The project will utilize a voice recognition API to interpret input
* Data will be stored to each individual account on a cloud database
* Personal identifying information will not be collected
* Users will not be able to access another user’s information
* Each user will have a unique account
* Recommendations will not be provided
* The system will not support adding new food items

**Objectives of Project:**

Calorie control is not so much about restricting your diet as it is about considering your food options and keep up with your health meter. However here is a list of project objectives:

1- Watch your calorie consumption.

2- You are making better choices with this app.

3- Simply, it's free app.

**Features:**

* Individual account to store nutritional data
* Input a food name and amount then retrieve its nutritional info
* Display amount of usage (daily/monthly/annul).
* Input information by voice (voice recognition)
* Display nutritional information of an account in an easy to understand graph

**Stretch Goals:**

* Determine user BMI and caloric requirements
* Compare recommended daily allowance for the individual to their consumption
* Provide support for pediatric accounts
* Ability to add custom food information

**References:**

1.  Hurt RT, Kulisek C, Buchanan LA, McClave SA. The obesity epidemic: challenges, health initiatives, and implications for gastroenterologists. Gastroenterol Hepatol (N Y). 2010;6(12):780–792.

2.  Strychar I. Diet in the management of weight loss. CMAJ. 2006;174(1):56–63. doi:10.1503/cmaj.045037

* If there is any reference link will by provide later in the final report.

**Possible APIs:**

Food Database API: <https://developer.edamam.com/food-database-api>

Voice Recognition API:  <https://developer.android.com/reference/android/speech/RecognizerIntent.html>

**Possible Tech:**

Flutter, MEAN Stack, Adobe Photoshop, MySQL.

**Backup Idea:**

(Translator), An application that translates from your language to a desired language and produces speech in the desired language using voice recognition.