Bradley Stephenson Project Step 7 Requirements & Use Case February 24th 2021

preliminary first (customer), second (system), and third (software) level requirements and components.

* Requirement Description ("shall" statements)

1. User Stories   
   User's Voice  
   *As a Fitness Marketing Company*   
   *I need/want a functional system that creates a user profile, and a Macronutrient tracking log capability linked to that profile   
   So that users can track and edit their daily food intakes when dieting*
2. Use-Case(s)  (4 - 10)

System connects to server for login (username & password)

And stores users’ credential in secured database.

System provides Creating profile capability where user can input their body stats(Age, Height, Weight, etc.….) which is also stored within a secured database. The system provides a clean easy to use GUI throughout application for ease of access. System provides search bar for user to search for different foods and the ability to add them to their daily tracking queue.

This will be a table. System provides a timer, starting at 12:00 to 11:59 AM and resets the users table food data to zero every time it reaches 12 AM.

Previous tables will be saved and stored for users to access as needed.

1. The System shall correctly take in users’ login and password credentials.
   1. The system shall present a GUI for the login credentials to log in users.

1.2 The system shall provide a username and password bar followed by a sign in button to connect to online database to store user’s profile.

* 1. The system shall save the users login data to a secured database.

1. The system shall build a default profile at time of signup.
   1. the system shall display a default profile at time of login.
   2. the systems shall allocate memory for Profile stats that the user can add as needed.
   3. The system shall provide a GUI with a name, Age, Gender, Height, Weight, Goal for users to input their personal goal information.
   4. The system shall store information in a database.
2. The system shall calculate the users basal metabolic rate using a calculator function.

3.1 The system shall take the users age height and weight profile information and use an algorithm (Harris benedict equation to calculate) to calculate the user’s Basic metabolic rate and store it to their profile stats.

1. The system shall provide GUI with search bar connected to database for users to select and store foods into their profile as needed.
   1. The system shall display a GUI for users to search and easily navigate through data(Food) to store into their daily table, as necessary.
2. The system shall provide users with an editing function to change serving sizes of selected foods.

5.1 The system shall provide a function to click on the food name, to bring up the portion size and change as needed.

1. The systems shall have set time to reset users daily table data each day.
   1. The system shall reset time at 12:00 AM and run till 11:59 AM to represent a full day of data.
2. The system shall store previous data for users to access older food logs.

5.1 The system shall store older Data and data changes each day(Temporal Tables?) in memory for users to access older daily food logs .