





The Wellness Calorie Tracker Application

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# INTRODUCTION







A practical tool that can help you manage your dietary goals.

#### **Problem Scenario**

- Health and fitness sidelined in IT related fields due to sedentary work and busy schedules
- Abundance of health information online, but scattered and complex

#### Sustainable Development Goals

- Our program aims to promote one of the Sustainable Developmental Goals created by the United Nations, ensuring healthy lives and promoting well-being for all at all ages
- This is answered through the features of the application which brings awareness of daily consumption and being conscious of the amount people intake.







#### **Project Solution**

- This project aims to make healthy living more convenient for those willing to keep track of their eating habits.
- With its simplistic interface, this app can be your stepping stone to healthy living.
- This program alone cannot guarantee you a healthy lifestyle
- However, using this program along with discipline and actively improving your eating habits, you may achieve your goal.

#### **Target Market**

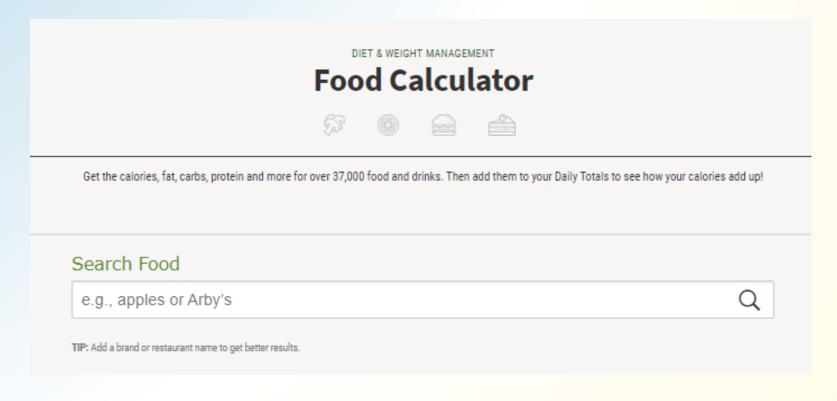
- accommodate people who have trouble keeping track of their eating habits or are self-aware of their food consumption
- providing an application that aims to give statistical results on their overall behavior.





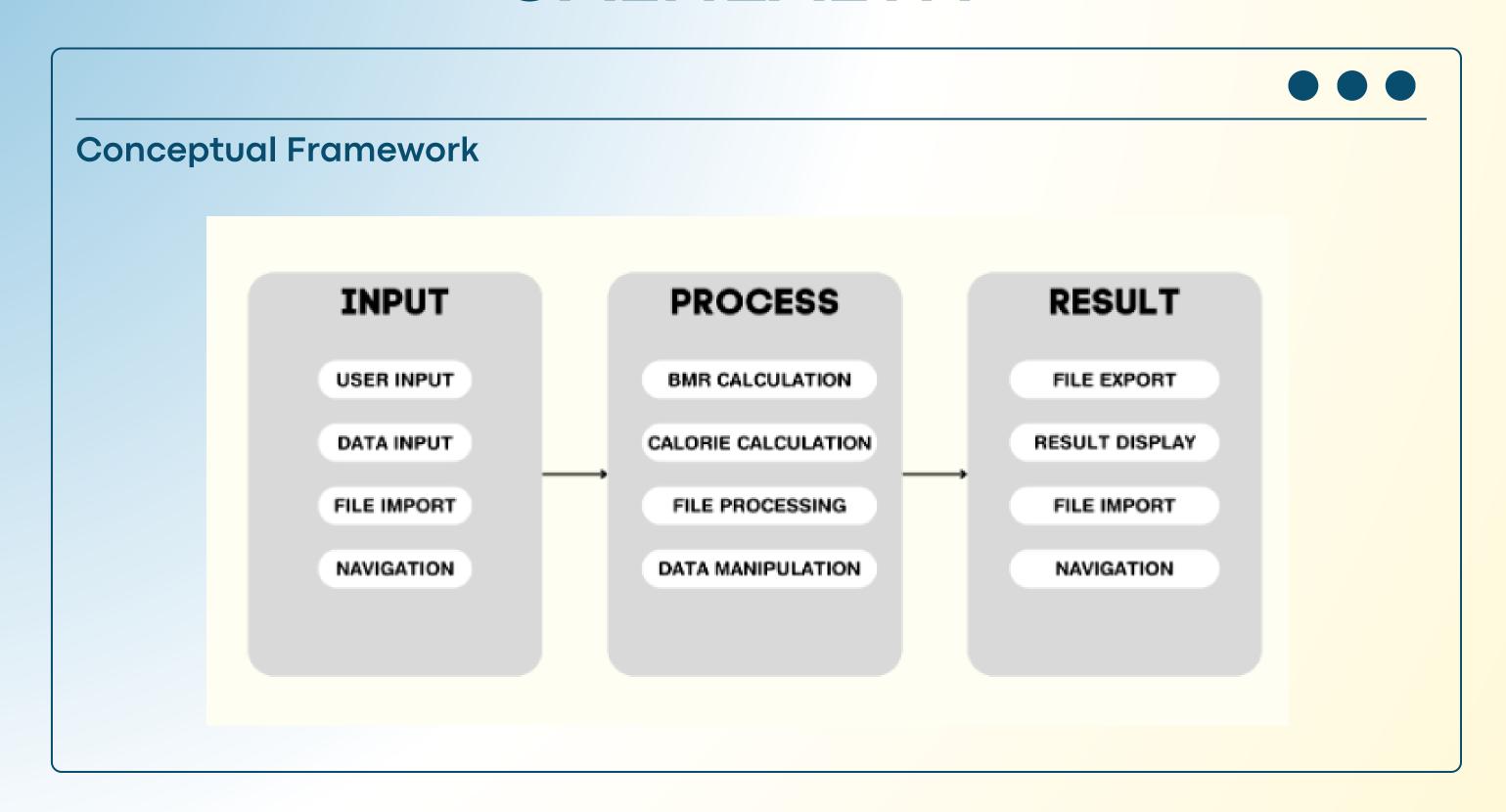


- WebMD food calculator where it provides an inventory of meals which you can calculate overall calories based on servings
- Containing Databases of different consumed foods and adding up based on the number of servings.















#### **Scope and Limitations**

- Basic GUI and functions cover existing features found in similar apps
- Calculates BMR based on Harris-Benedict formulas
- Meal planning includes extensive dictionary of uncategorized meals in a single list box
- Does not provide accurate representation of Calories based on user's daily work type
- Lack of additional information about individual meals aside from calories affects prediction realism
- Multilayer approach to displaying features is more intuitive but sacrifices simplicity and ease of use
- Application restriction to locked 800x600 aspect ratio limits usability for all screen types
- Limited to Windows platform, not portable to other devices without significant interface redesign







#### **Project Solution**

- Multilayer Graphical User Interface (Multilayer GUI)
  - Contains multiple layers of interface with unique functionalities
- Username-based history system
  - Saves previous sessions based on inputted username
- Directory system
  - Includes a layered file system where user data is saved in dedicated folders
- Extensive Database system
  - Provides multiple files to save data when functions are executed
    - BMR Calculation: Saves user's BMR data in a CSV file and presents results
    - Meal Plan: Imports a Txt file containing a dictionary of different items
    - : Allows users to save selected meal plans and exports them to a CSV file









#### **Project Solution**

User History: Imports various files displayed for users to view

#### Title and Menu Interface

- Title interface with program title, username entry box, and start button
- Menu interface with buttons for different features and brief information on previous session

#### Feature Interface

- BMR Calculation: Calculate BMR and average estimated calories based on user's information
- Meal Planning: Search, select, add, modify, and export meals
- User History: Access existing usage history

#### Exception handling

 Handles invalid/missing user entries and missing files to ensure program continues to function

#### Navigation system

Navigation buttons to move between interfaces

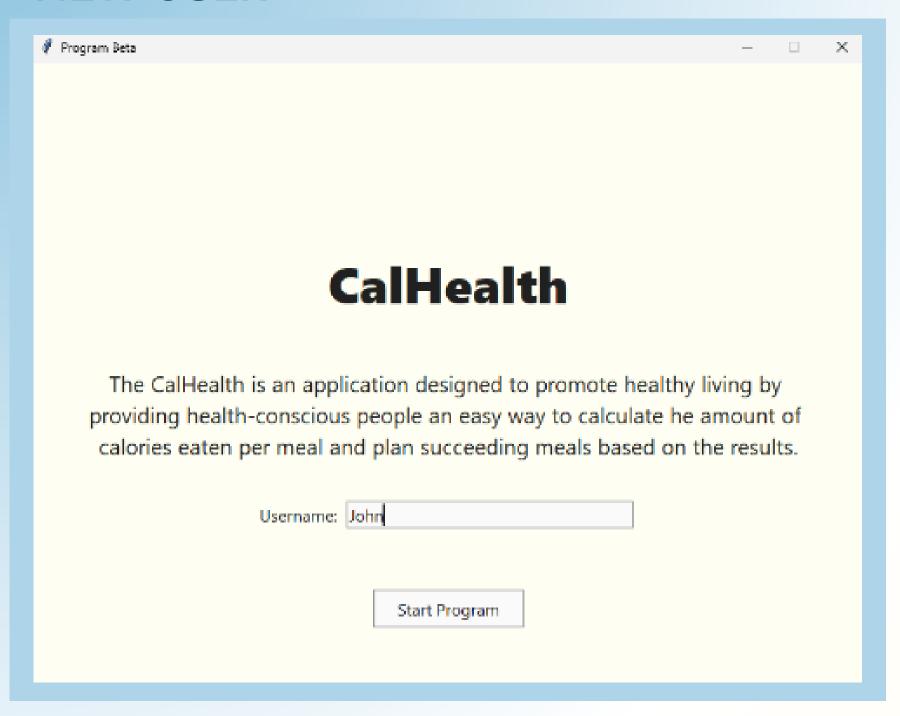




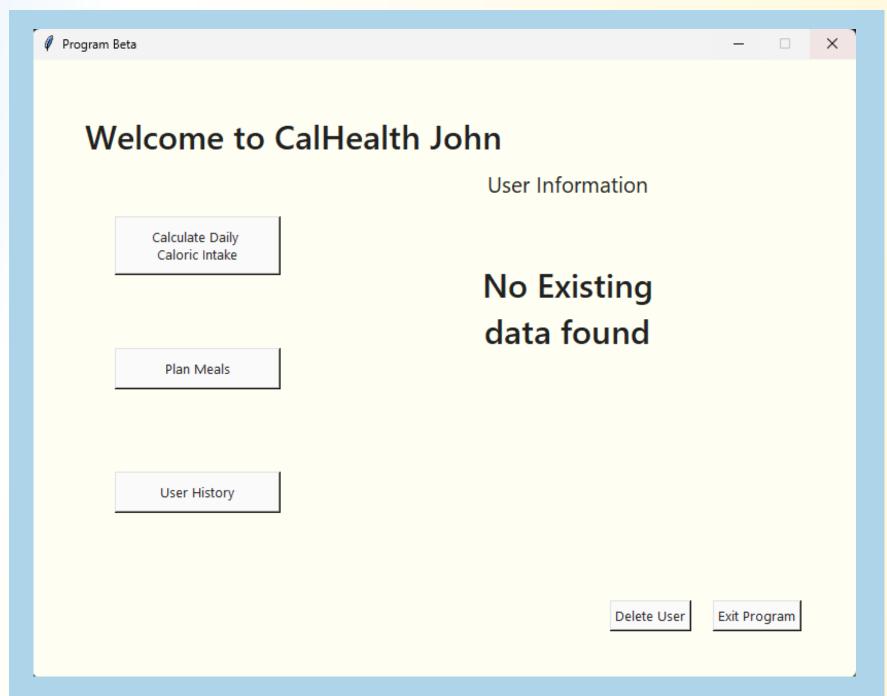


# PROGRAM PROTOTYPING

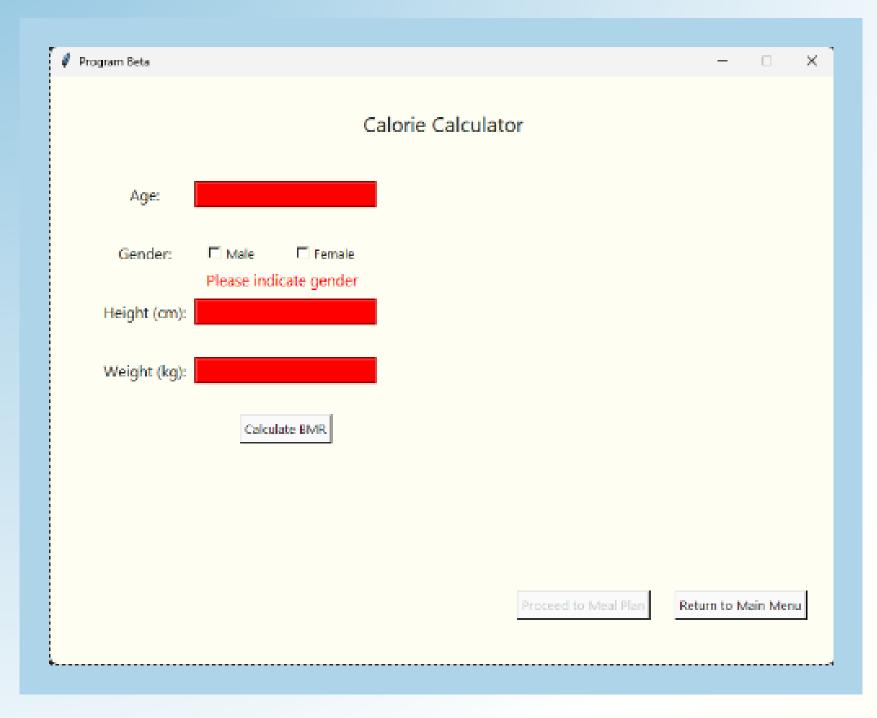
#### **NEW USER**



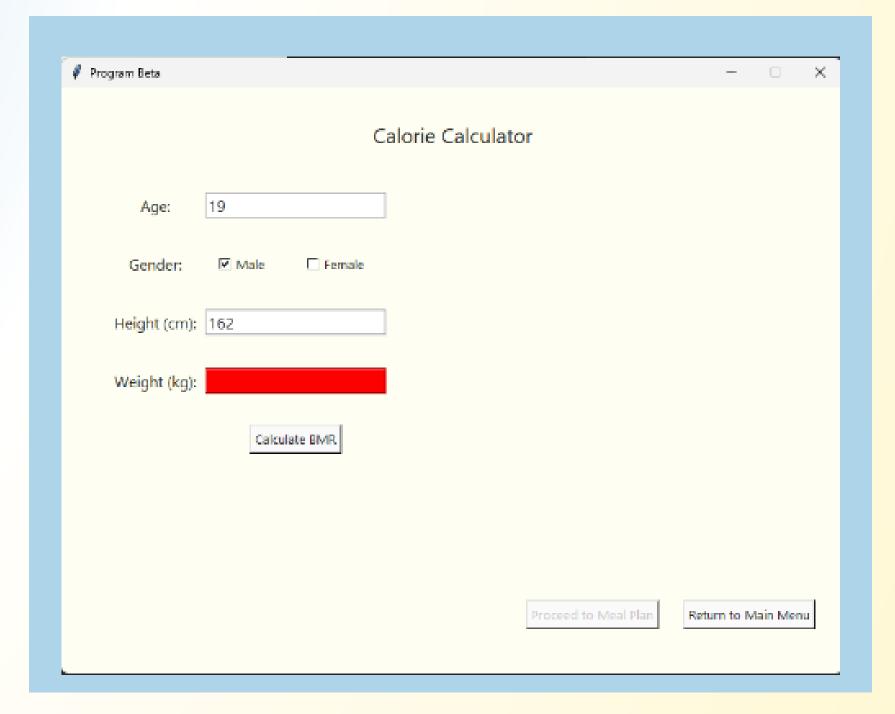
#### **NEW USER, NO DATA**



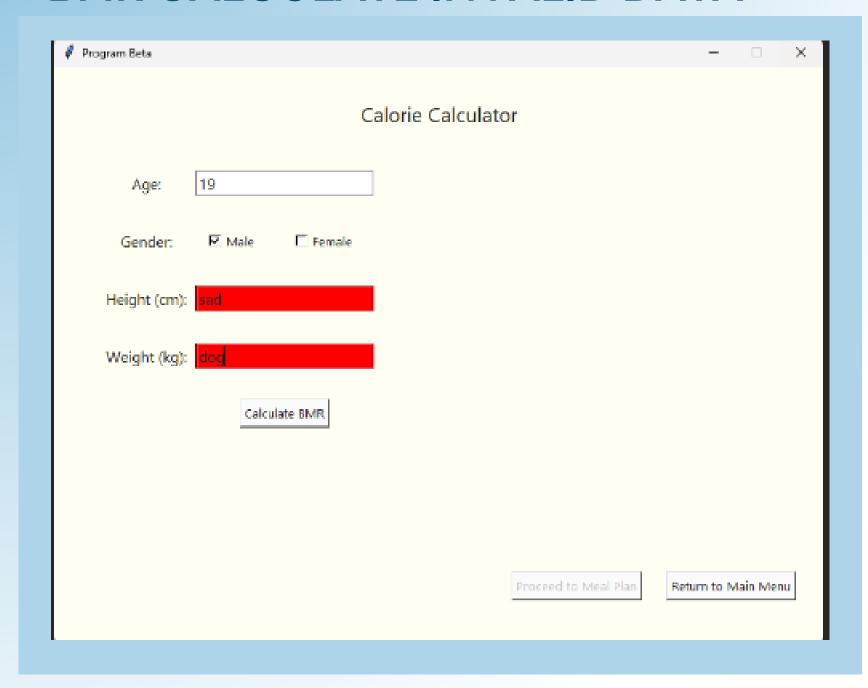
#### **BMR CALCULATE NO DATA**



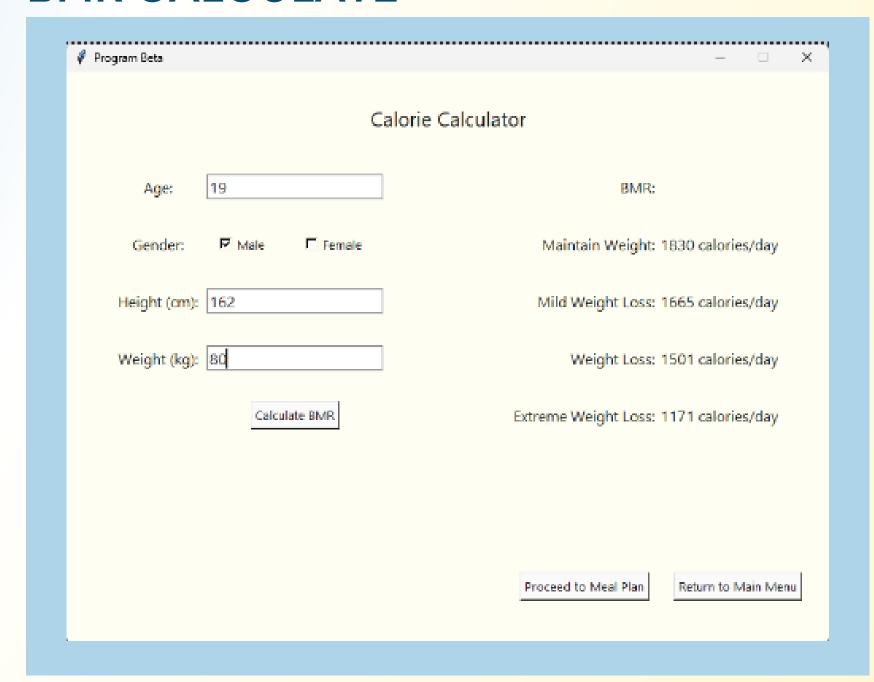
#### BMR CALCULATE IMPARTIAL DATA



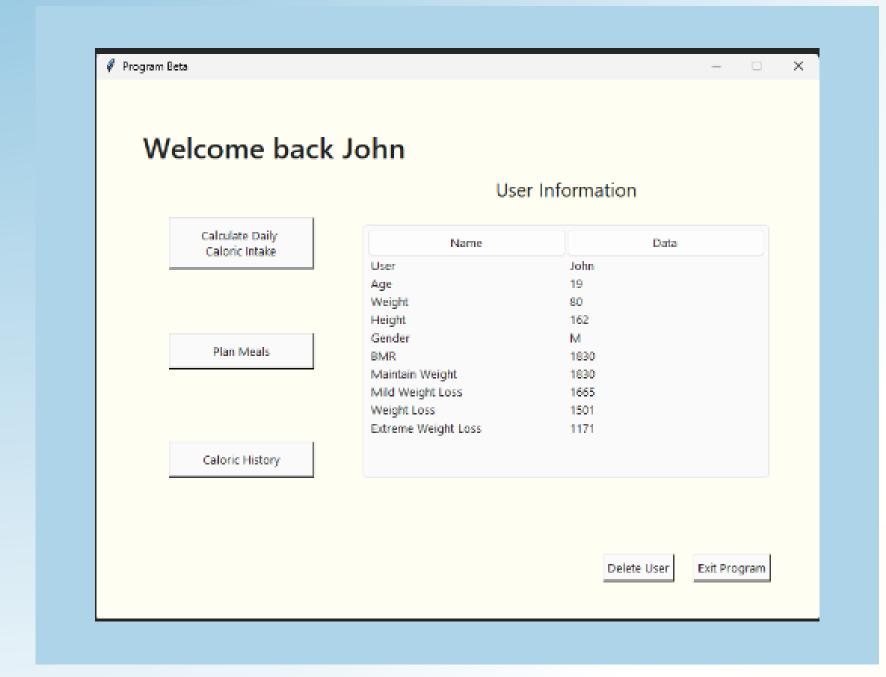
#### **BMR CALCULATE INVALID DATA**



#### **BMR CALCULATE**



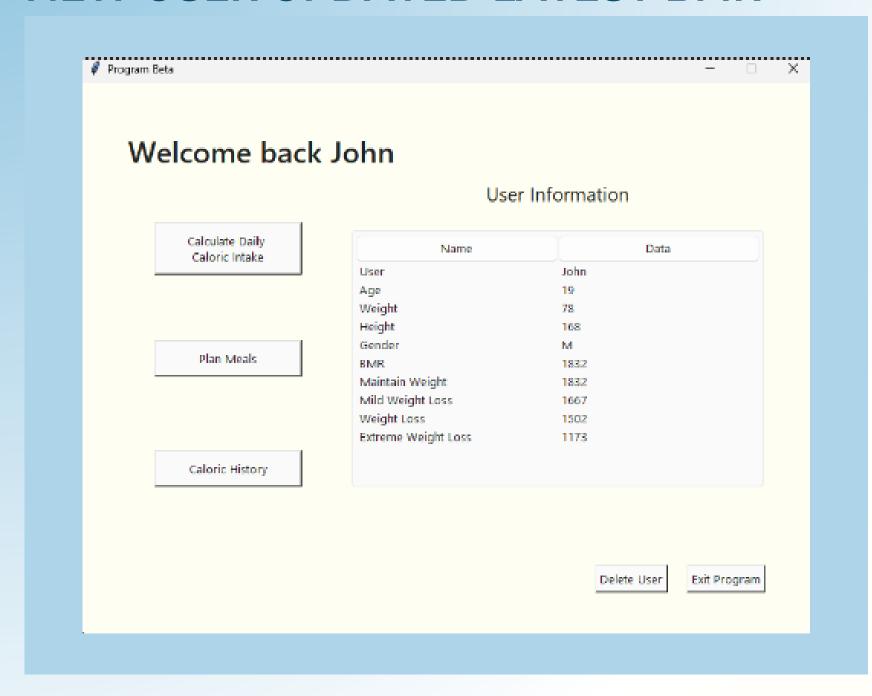
#### **NEW USER UPDATED MENU**



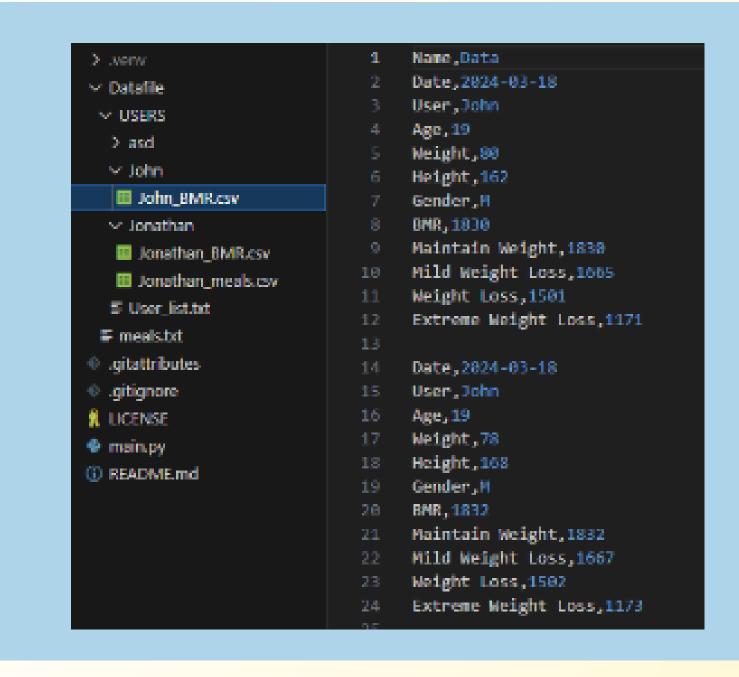
#### **NEW USER LATEST BMR**

Program Beta		– – ×
	Ca	alorie Calculator
Age:	19	BMR:
Gender:	Male	Maintain Weight: 1832 calories/day
Height (cm):	168	Mild Weight Loss: 1667 calories/day
Weight (kg):	78	Weight Loss: 1502 calories/day
	Calculate BMR	Extreme Weight Loss: 1173 calories/day
		Proceed to Meal Plan Return to Main Menu

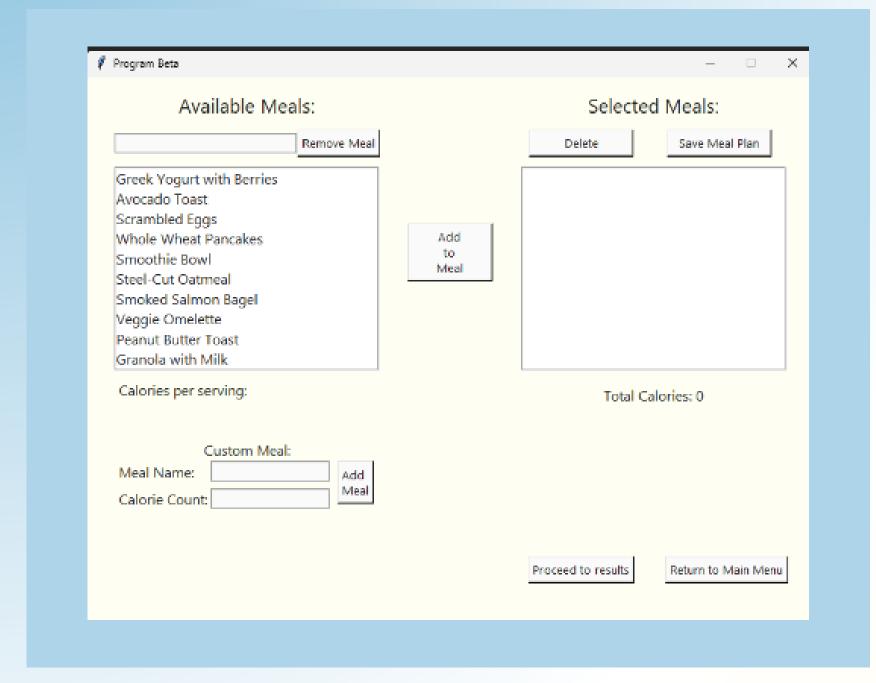
#### **NEW USER UPDATED LATEST BMR**



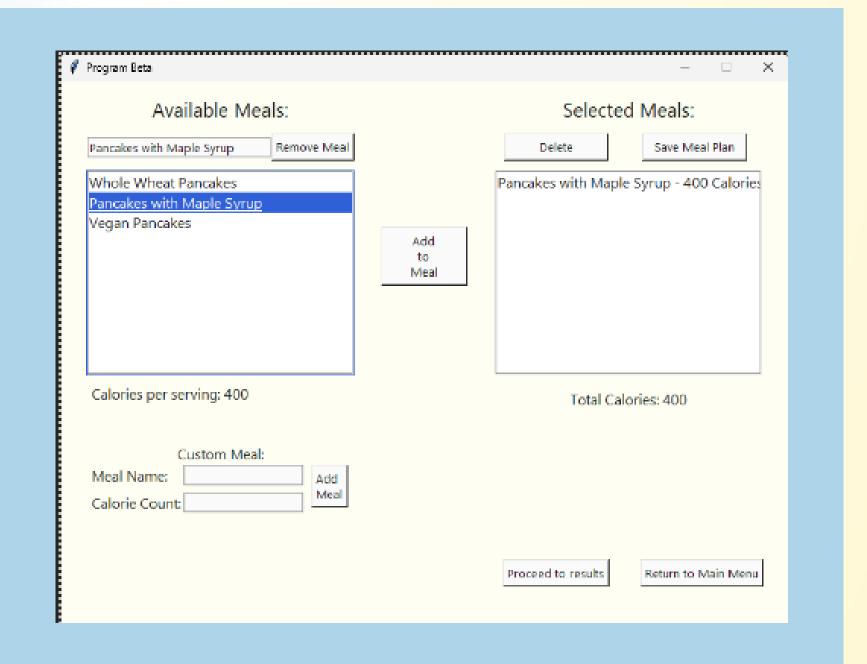
#### **NEW USER EXPORTED DATA**



#### MEAL PLAN INTERFACE



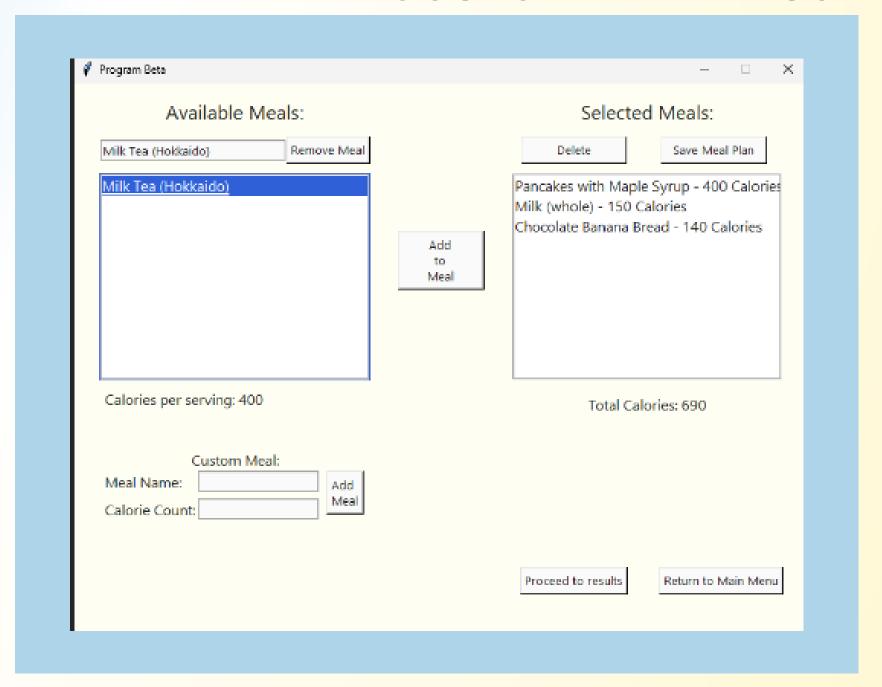
#### **MEALPLAN ADD**



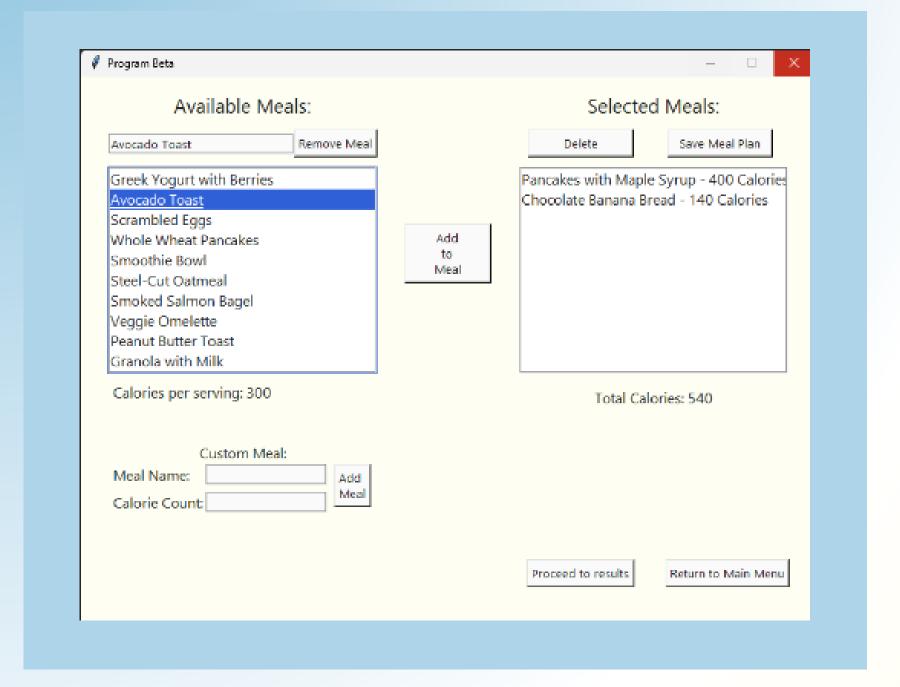
#### MEAL PLAN ADD CUSTOM MEAL

Available Meals:			Selected Meals:	
Milk Tea (Hokkaido)	Remove Meal		Pancakes with Maple Milk (whole) - 150 Ca	
		Add to Meal	Chocolate Banana Br	ead - 140 Calone
Calories per serving: 140  Custom Meal:			Total Calo	ories: 690
	ido) Add Meal		Total Cal	ories: 690

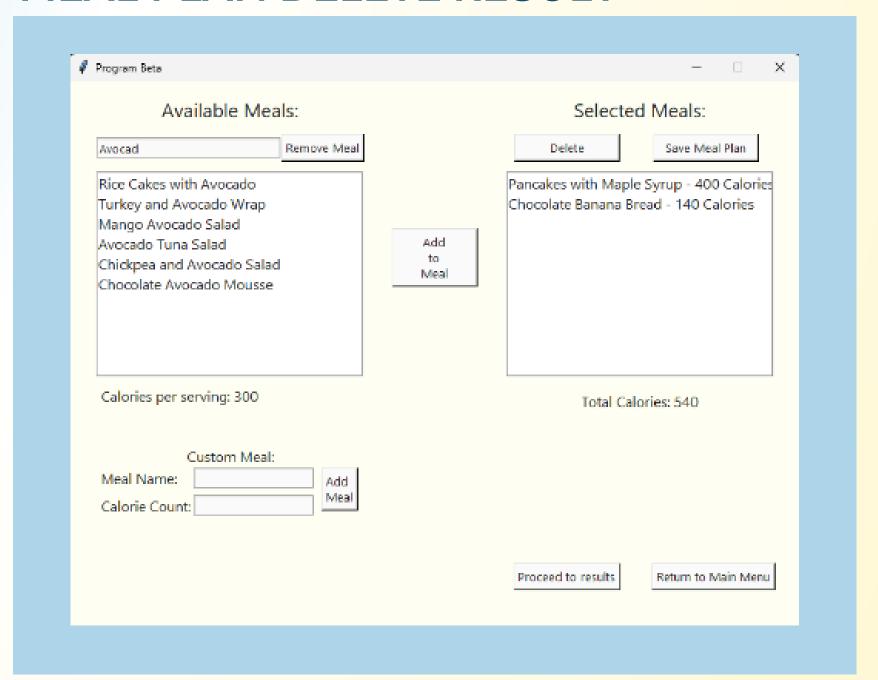
#### MEAL PLAN ADD CUSTOM MEAL RESULT



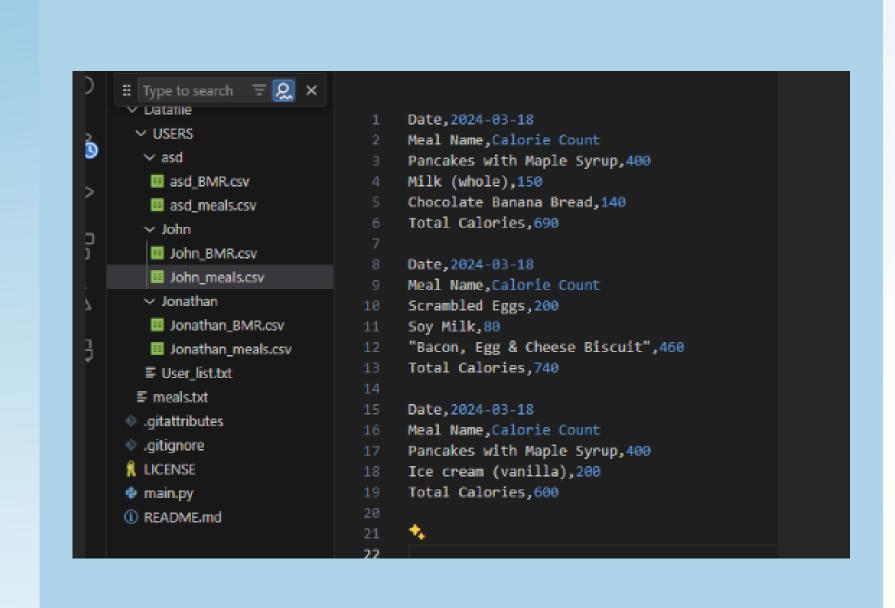
#### **MEAL PLAN DELETE**



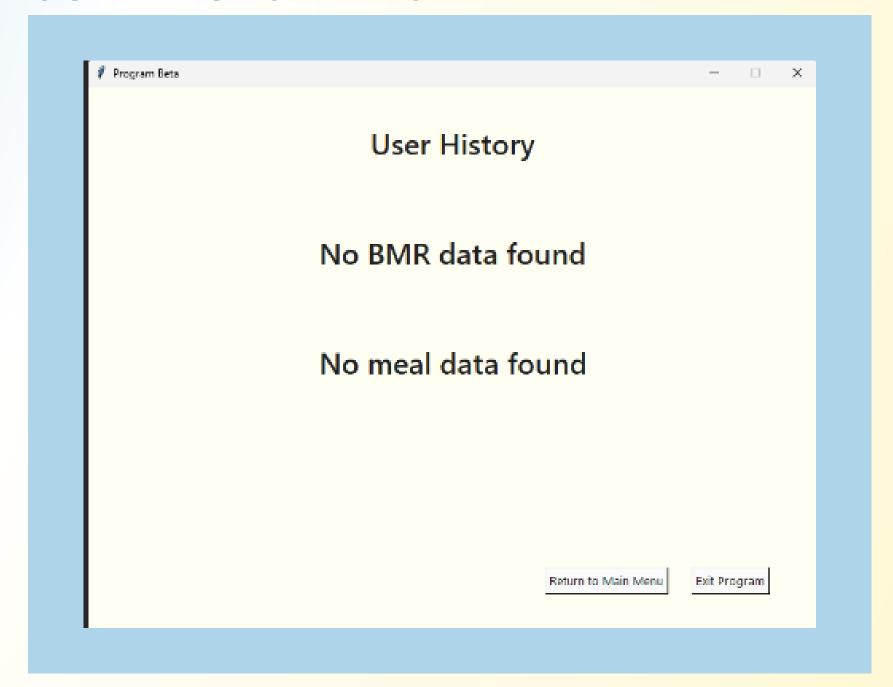
#### MEAL PLAN DELETE RESULT



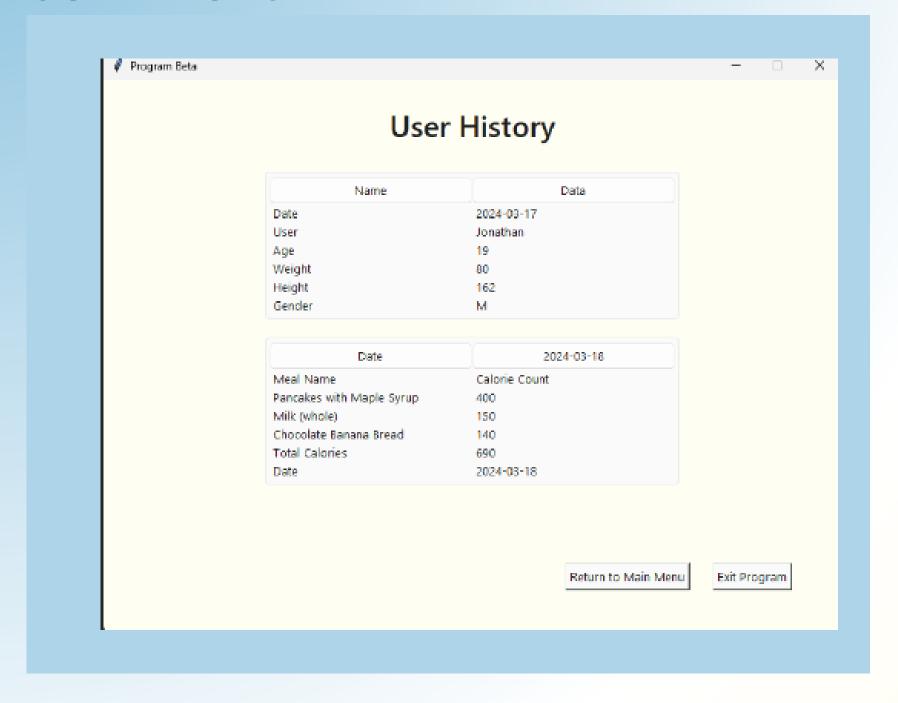
#### **MEAL PLAN EXPORT**



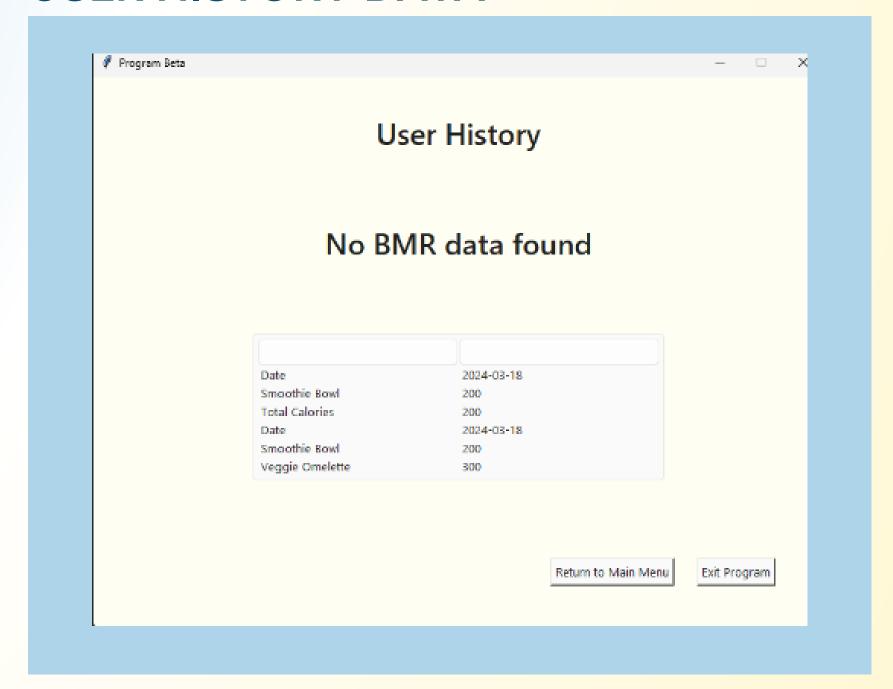
#### **USER HISTORY NO DATA**



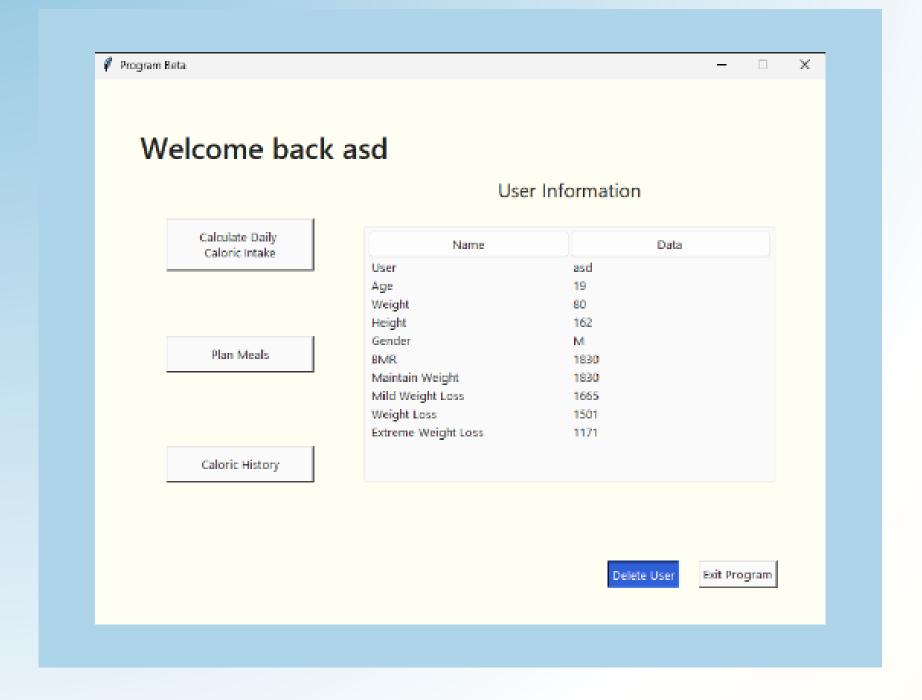
#### **USER HISTORY IMPARTIAL DATA**



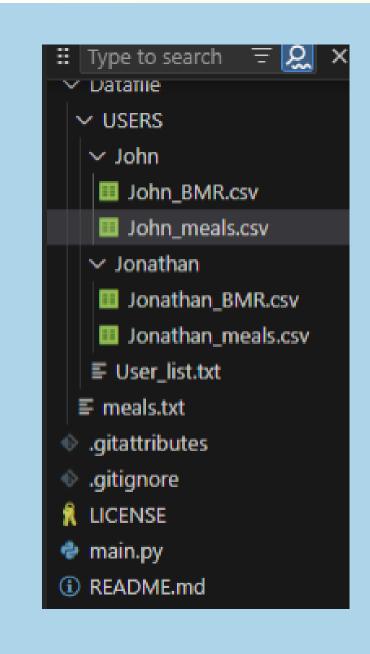
#### **USER HISTORY DATA**



#### **DELETE USER**



#### **DELETE USER RESULT**









# THANKYOU