

Criterion B: Solution Overview

Inputs & Outputs

Inputs

Input	Data Type	Example
Date (dd/mm/yyyy)	Date class	13/02/2019
Time Spent Walking (hrs)	double	0.5
Time Spent Biking (hrs)	double	1.0
Time Spent Swimming (hrs)	double	1.5
Week Number	integer	3
Current Weight of Client (kg)	double	86.2
Weekly "How I Felt" scale	ComboBox	4

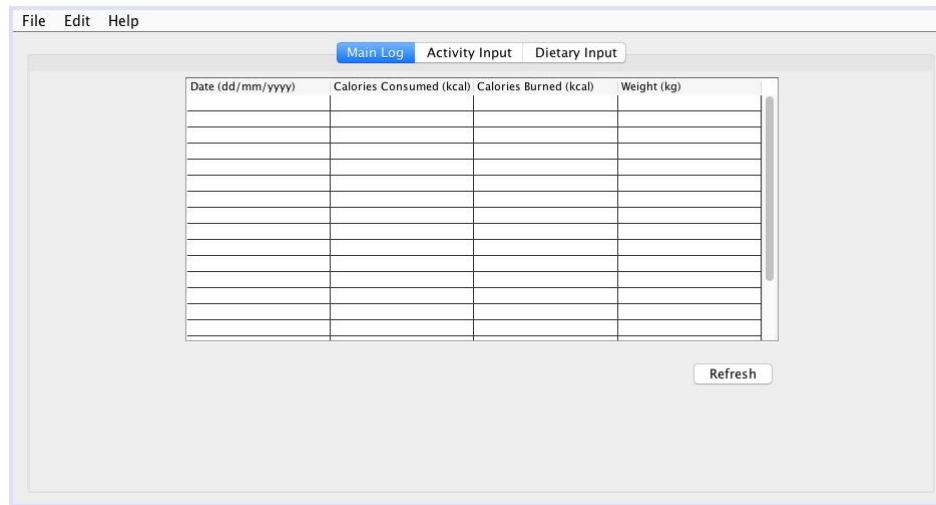
Outputs

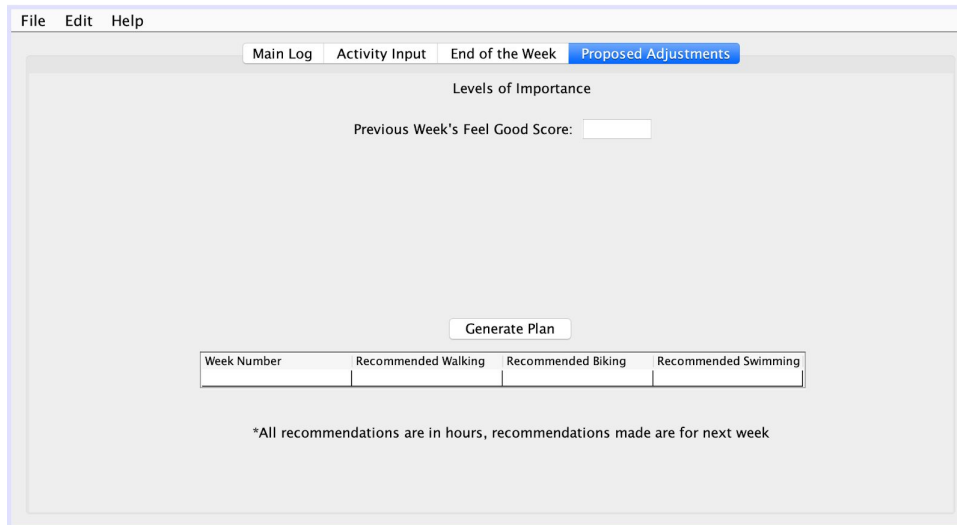
Output	Data Type	Example
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Date (dd/mm/yyyy)	Date class	14/03/2019
Hours Walked (hrs)	double	0.5
Hours Biked (hrs)	double	1.0
Hours Swam (hrs)	double	1.5
Week Number	integer	4
Weight of Client Week by Week (kg)	double	84.3
Weekly “How I Felt” Scale	integer	6
Previous Week’s “How I Felt” Score	integer	5
Recommended Hours to Walk for the Following Week	double	0.4
Recommended Hours to Bike for the Following Week	double	1.6
Recommended Hours to Swim for the Following Week	double	1.0

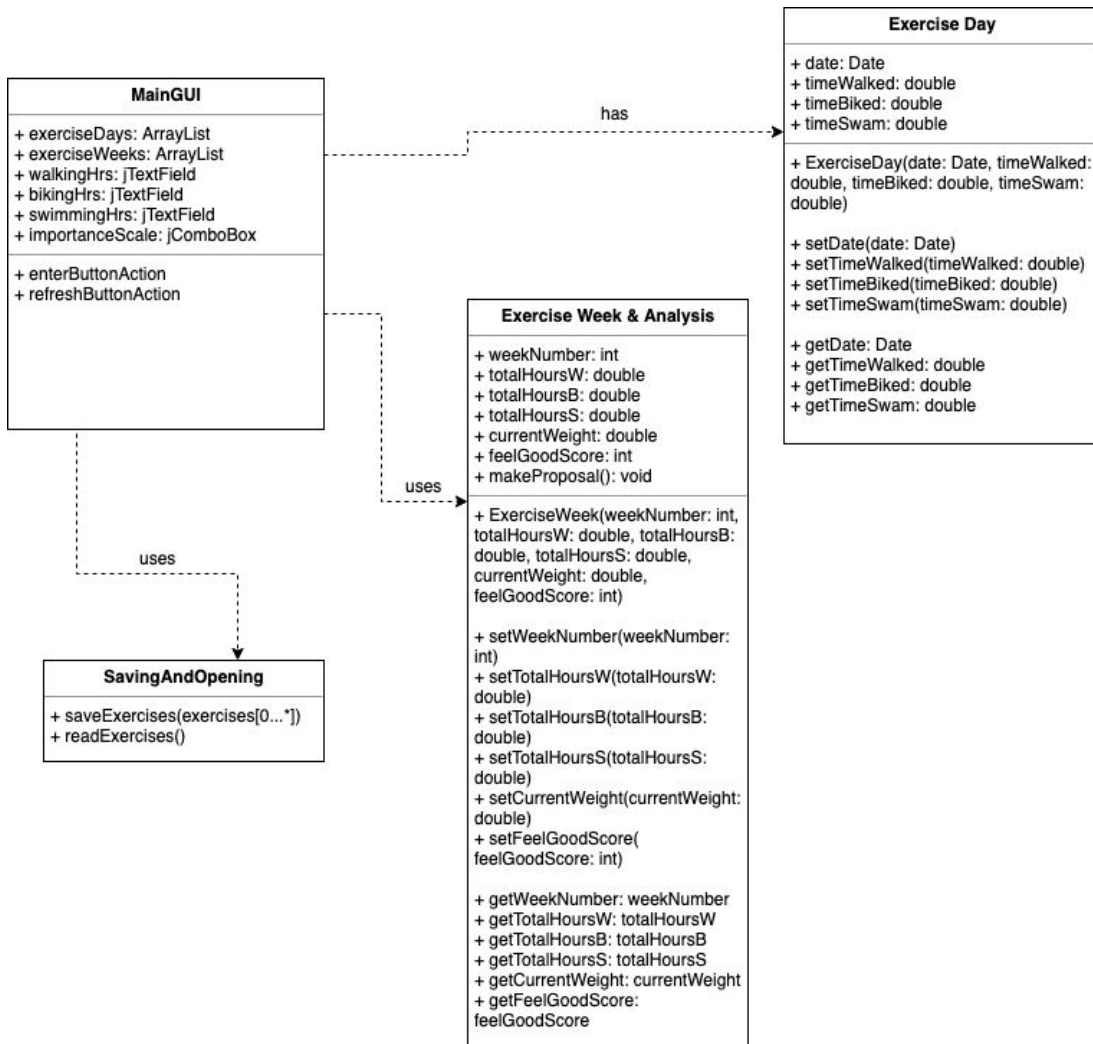
Prototype Development

Original Prototype





UML Class Diagram



Chronological Development Plan

Creation of the GUI (2 weeks)

- I. GUI after the **initial interview**
 - A. Create the first tabbed pane as an overall data log
 1. Is viewable as a table
 - B. Second pane for activity input
 1. Includes text fields for the input of new data
 2. Includes a table to display inputted data
 - C. Third pane for dietary input
 1. Includes text fields for the input of new data
 2. Includes a table to display inputted data
- II. Reworking of the GUI after having had a **second interview** with the client
 - A. Revamped third tab by taking out dietary input options and including weekly inputs, such as weight and “how I felt”, as well as making calculations to total hours spent in each physical activity.
 - B. Added a fourth tab which makes suggestions for next week, in accordance to how the client felt, the amount of time spent in each activity within the particular week, and weight loss.

Template Classes (1 week)

- I. Create **Main**
- II. Create inheritance classes from the main - **ExerciseDay** and **ExerciseWeek**

Saving and Reading (1 week)

- I. Creation of a **Save and Read** class
 - A. Read exercise data method
 - B. Save exercise data method

Word Count: 189