Calorie Counter App

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Calorie Counter App

- A terminal app that counts and tracks the user's calories consumed.

Problem

For anyone interested in weight management, monitoring & tracking calories become -

- emotionally stressful to be on top of personal recording at all times.
- tedious to manually calculate and create a readable data view.
- difficult to know how you've done it over a period.

Solution

- Navigate menu with clear directions to track and view calorie intake.
- Provide guideline comments daily/weekly.
- Give confidence in weight management.

Audience

Health enthusiast, Busy individuals interested in weight management.

Features

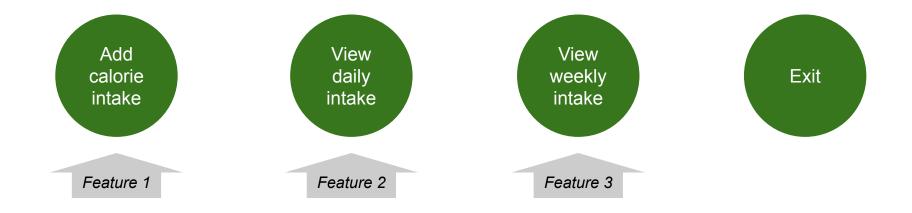
As a user, I want to be able to

- 1. Record my calorie intake.
- 2. Calculate and view my calorie intake daily and receive an appropriate health recommendation.
- 3. Calculate and view my calorie intake weekly and receive an appropriate health recommendation.

Demo

Menu Options

- Easy to navigate, Clear instructions, Reliable



Menu Options

Add calorie intake

User Inputs

- Date (Sat Sun)
- Food Item (CSV file)
- Portion (0.5/1/1.5/2)

Functions

- Read/Write to CSV files
- Confirms the inputs
- Store user data (date, total calories)
- Error handling
- Add another data

View daily intake

User Input

Date (Sat - Sun)

Functions

- Calculate daily total calories
- Print brief guideline messages
- Error handling
- Add a new data intake

View weekly intake

Functions

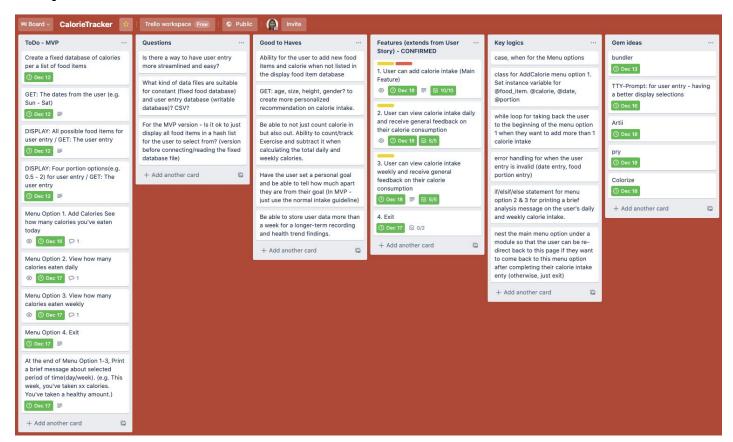
- Calculate weekly total calories per number of calorie entry
- Print brief guideline messages
- Error handling
- Add a new intake

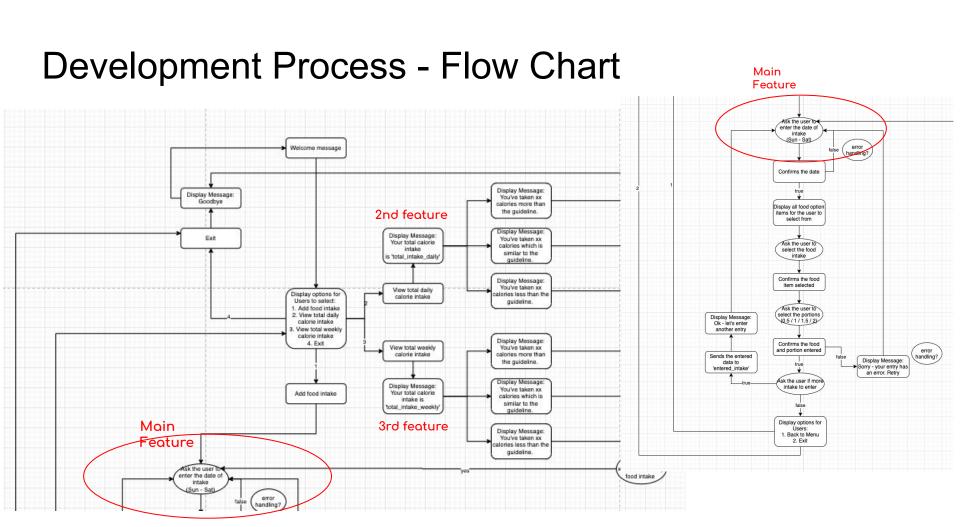


Functions

- Error handling
- Exit

Development Process - Trello board





Key logics of the application

- class AddCalorie
 - initialize objects, create instance variables, added attr_accessor/reader
 - Interacting objects across methods
- case, when for the main menu options
 - o while loop to re-run 'menu 1' when needed
 - active use of instance variables across the code
 - o boolean (re-direct, print calorie analysis)
 - iterators for hash and array
- methods
 - o Art
 - welcome
 - Initialize

- user_select
- o find_food_item
- handle_input

Key logics of the application

```
@food_calorie_table = CSV.read("food_calorie_file.csv", headers: true, header_converters: :symbol)
```

CSV file

- Read files (CSV.foreach, CSV.read)
- Write files: CSV.open("file_name", "a +")

Error Handling

- o begin/rescue
- when/else
- boolean (if/elsif/else)
- o data structure (e.g. .to_i/.to_f, value = 0.0, @date = ")
- TTY-Prompt
- o pry
- clear instructions

```
daily_total_calorie = 0.0
CSV.foreach("user_data.csv", options).with_index do |(d,t), i|
  if d == @date
  t = t.to_i
  daily_total_calorie += t
  end
end
```

```
CSV.open("user_data.csv", "a+") do |csv|
  csv << [@date, total_calories]
end</pre>
```

Key logics of the application - main menu

```
class AddCalories
  attr_accessor :date, :food_item, :portion
  attr reader :calorie
  def initialize
     @date = ''
     @food item = ''
     @portion = 0.0
     @calorie = 0
     @prompt = TTY::Prompt.new
     @food calorie table = CSV.read("food calorie file.csv", headers: true, header converters: :symbol)
      . . .
   end
end
```

Key logics of the application - redirect

```
when 1
 while add intake start = true
 while while add intake start == true
. . .
    puts "Do you have more to add? (Y/N)"
    answer = gets.chomp
     if answer == 'Y'
        while add intake start = true
      else
        while add intake start = false
        puts "Goodbye"
        exit(0)
      end
    end
end
```

```
when 3
puts "Do you have any new food intake to add? (Y/N)"
 redirect to menu one = gets.chomp
 if redirect to menu one == 'Y'
     puts "Enter 1 to add new calorie intake or enter return to exit"
      AddCalories.new().handle input
  e1se
    puts "Goodbye"
     exit(0)
  end
end
```

Key logics of the application - working w/ csv files

```
def user_select
  options = {:encoding => 'UTF-8', :skip_blanks => true}
  CSV.foreach("food_calorie_file.csv",options).with_index do |(f,c), i|
    if f == @food_item
    puts "You've eaten #{@food_item} which is #{c}.".colorize(:light_blue)
        @calorie = c
        user_taken_index = i
    end
end
end
To Read / Write on CSV files
```

```
CSV.open("user_data.csv", "a+") do |csv|
  csv << [@date, total_calories]
end</pre>
```

Key logics of the application - error handling

```
#Error handling: If the `food calorie file.csv` cannot be located,
#1)print a error message, 2)create a new csv file with the data, and 3)ensure the user can proceed navigating the app normally.
       begin
           @food calorie table = CSV.read("food calorie file.csv", headers: true, header converters: :symbol)
       rescue
           puts "Alert: Couldn't open the food calorie file, so a new food calorie file has been created for you."
           puts "Select the above menu option you want to access (1-4)."
           system('touch food calorie_file.csv')
           CSV.open("food calorie file.csv", "a+") do |csv|
               csv << [:food item, :calories]</pre>
               csv << ['Soy milk with muesli', '236']</pre>
               csv << ['Quinoa salad', '222']</pre>
               csv << ['Avocado toast', '157']</pre>
           end
           @food calorie table = CSV.read("food calorie file.csv", headers: true, header converters: :symbol)
       end
```

Key logics of the application - error handling

```
when 4
  puts "Goodbye"
  exit(0)
else #Error handling: If the user input is wrong, print a helpful message so that the user
can enter valid entry.
  puts "Invalid entry: Please input one of the numeric option between 1-4.".colorize(:red)
  AddCalories.new().handle_input
end
```

Reflection

Challenges:

- Thinking about logic details, sequence at the flowchart stage
- Debugging, Loop errors, Method usage
- Error handling
- Difficulty in composing right questions, reading the web resources and understanding the contents, applying the resource into solving my issues

Favourite parts:

- Project Management (flowchart, implementation planning)
- Making it work, and tuning the code (improving)

All done!