PROJECT REPORT

ON

CALORIE COUNTER

B. Tech (CE) Sem-IV

In the Subject of

SOFTWARE ENGINEERING PRINCIPLES AND PRACTICES

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CERTIFICATE

This is to certify that the term work

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Software engineering principles and practices

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Contents

-> Abstract.....5

1.Introduction.....6

2.Software Requirement Specifications.....8

3.Design.....12

4.Implementation Detail.....17

5.Layouts.....25

6.Conclusion.....32

7. Limitation and Future Extension.....33

8. Bibliography.....34

Abstract

Nowadays diseases are increasing as society comfort level is increasing. People do not work accordingly what they eat and does not keep a target of calories eaten by them.

To overcome these situations, there is a need of calorie counter system. It is a web application which helps to control amount of food intake at a time. So, food gets control i.e., weight get control and diseases get control.

Introduction

1.1 Introduction to calorie counter

To follow calorie intake per time to control your diet so a User-friendly web application is made called calorie counter. The benefit of application is that it doesn't store memory in your device and update it regularly. You have to just open website and you are ready to go.

Features:

- Users can fix amount of calorie intake at a time suggested by doctor.
- Users can add, delete or edit food items and number of calories present in it respectively.
- Users can see remaining calories left so that user can eat accordingly.
- Users can see what he or she has eaten and how much calories it contains.
- If user eats above target set by him or her message is printed of overloading.

1.2 Technology / Tools used

Xampp:

XAMPP is a free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages.

Vs code:

Visual Studio Code is a freeware source-code editor made by Microsoft for Windows, Linux and macOS. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git.

HTML/CSS/Python:

The Hypertext Markup Language, or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets. Python is a general-purpose coding language. It can be used for other types of programming and software development besides web development.

Software requirement specifications

Calorie counter:

R.1 Managing user profile

R.1.1 Create user profile

Description: Users have to create a profile (sign up)

Input: username, email, password

Output: profile created message

R.1.2 View user profile

Description: Users can view their profile

Input: User selection

Output: User profile

R.1.3 Edit user profile

Description: Users can edit their profile

Input: User data

Output: Success message

R.2 Food items

R.2.1 Add food item

Description: Users have to add food name, calories present in it and quantity of food

Input: Food name, calories present and amount of food

Output: Food added to food list

R.2.2 Delete food item

Description: Users can delete the entries added by user

Input: User selection

Output: Food deleted

R.2.3 Edit food item

Description: Users can edit food entries

Input: User selection

Output: Food edited

R.3 Daily target setting

R.3.1 Total Calories intake in a day

Description: Users have to set their calories goal for a day

Input: Calories goal set by user per day

Output: Target calories done

R.3.2 Edit calories target

Description: Users can change their target of intake of calories for a day

Input: New calories goal set by user per day

Output: Success message

R.4 Calculating calories

R.4.1 Adding food eaten by user

Description: After eating food items user have to add food name and amount of in taken and he or she can see it in the table of history.

Input: Food name and quantity of food

Output: Food added and remaining calories that can be taken

R.4.2 Over eaten calories by user

Description: If user eats more than target calories user can see what he or she has eaten till now and how much of amount and calories present in it.

Input: food

Output: over eaten

R.5 reset or deleting the data

R.5.1 Reset or delete the data

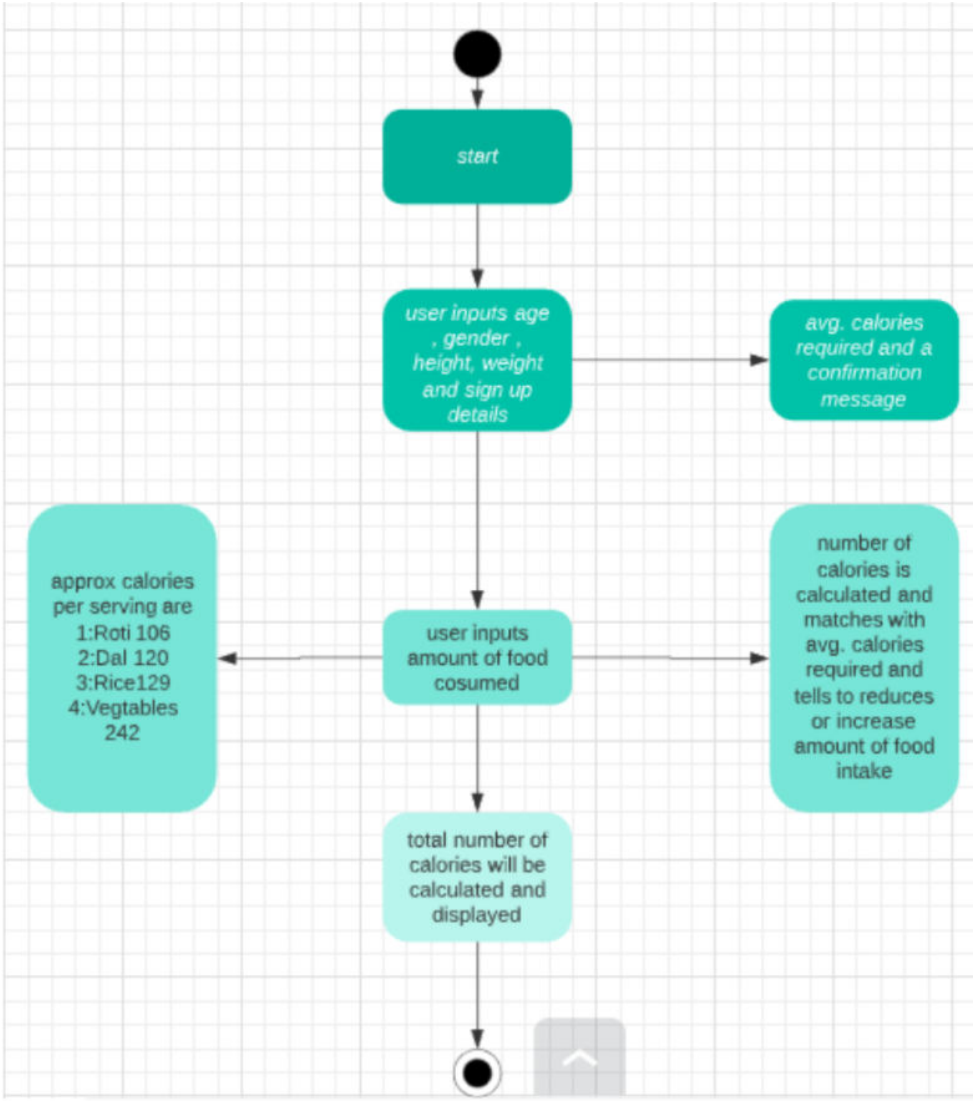
Description: If user wants to delete the data, he or she can do it by just pressing on delete

Input: User selection

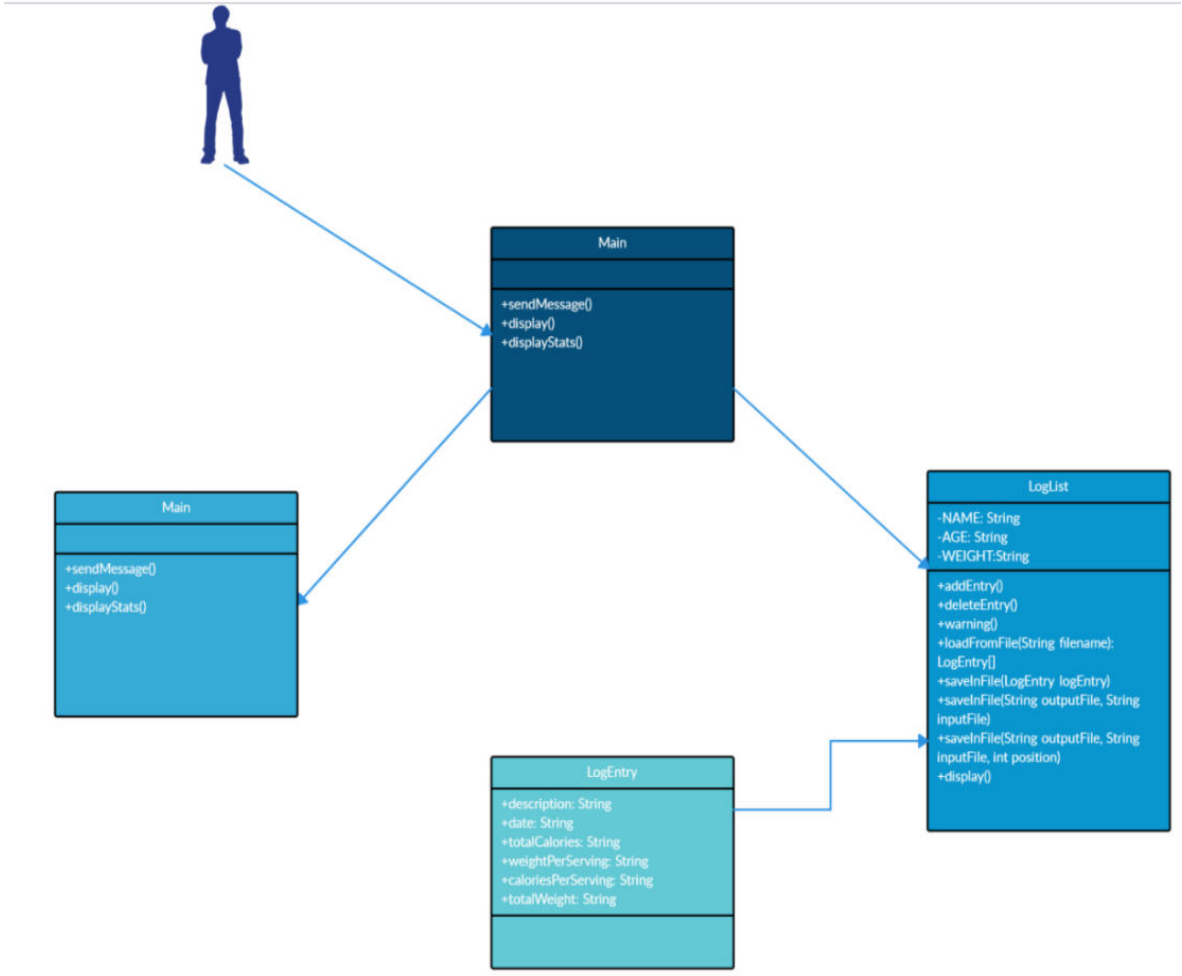
Output: Data deleted

Design

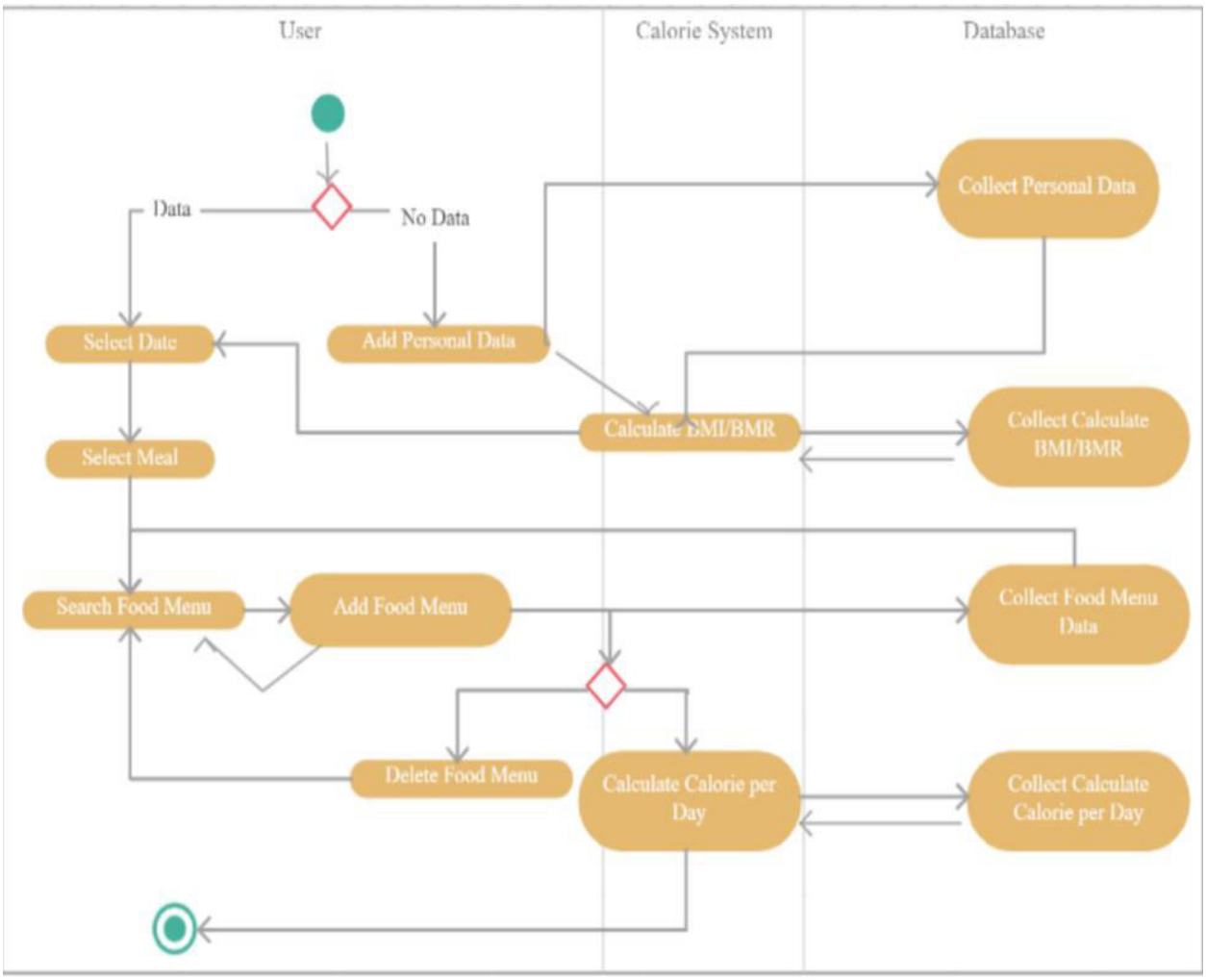
Use case diagram:



Class diagram:

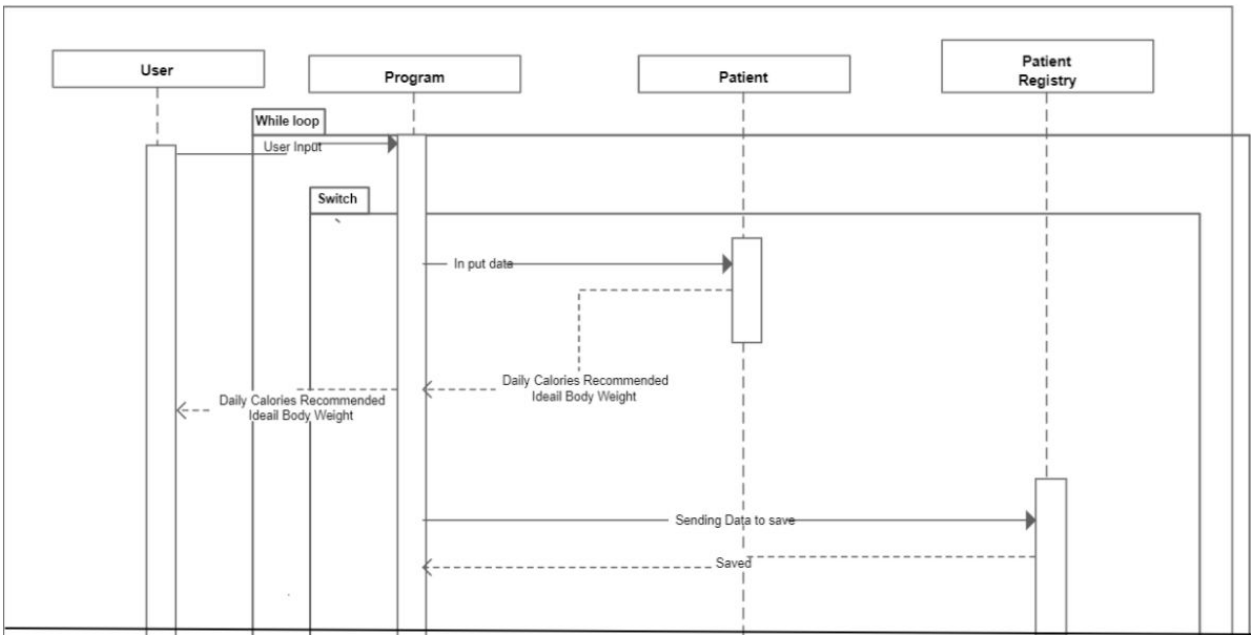


DFD model:

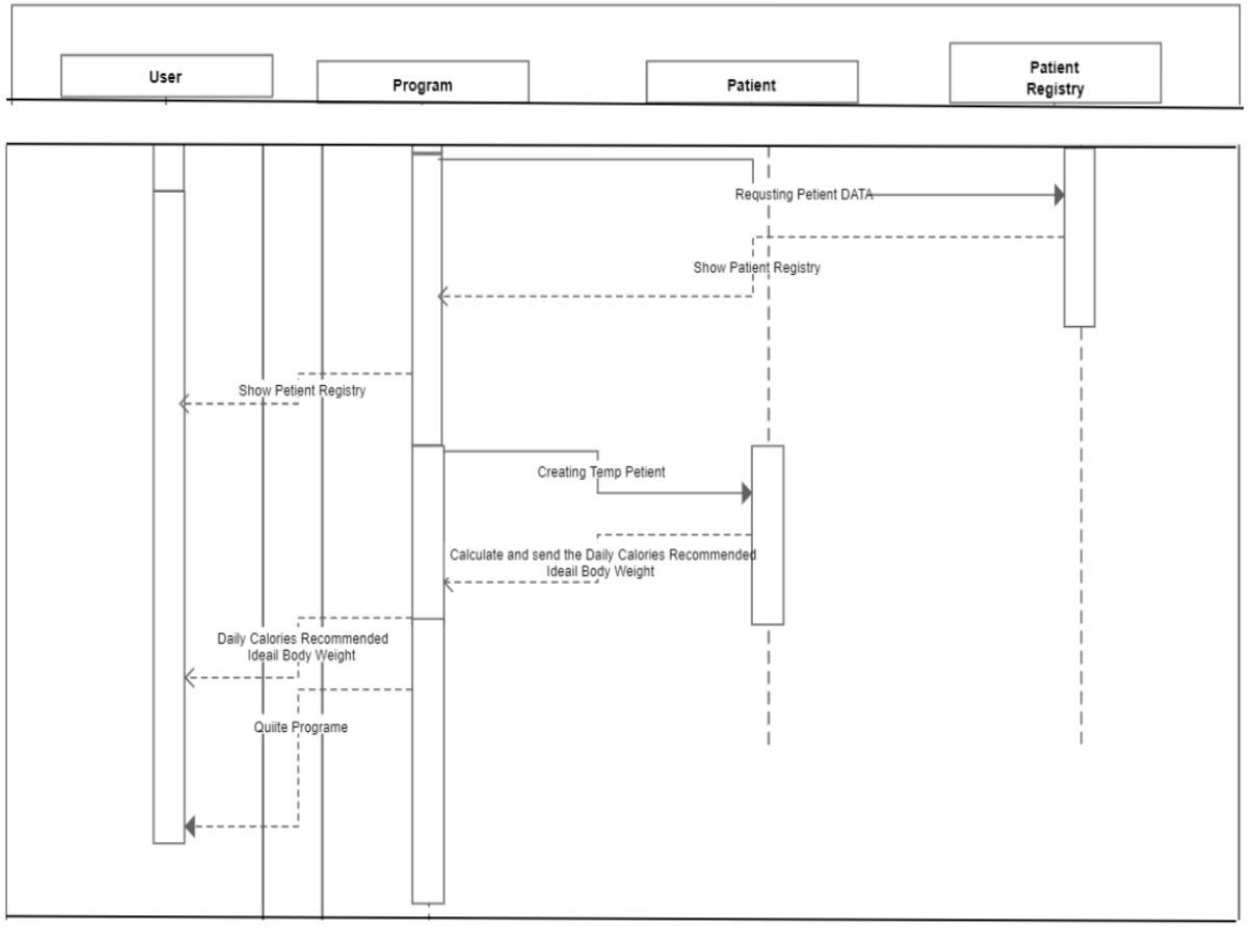

User
Calorie System
Database
Data
No Data
Collect Personal Data
Select Date
Add Personal Data
Calculate BMI/BMR
Collect Calculate BMI/BMR
Select Meal
Search Food Menu
Add Food Menu
Collect Food Menu Data
Delete Food Menu
Calculate Calorie per Day
Collect Calculate Calorie per Day

Sequence diagram:

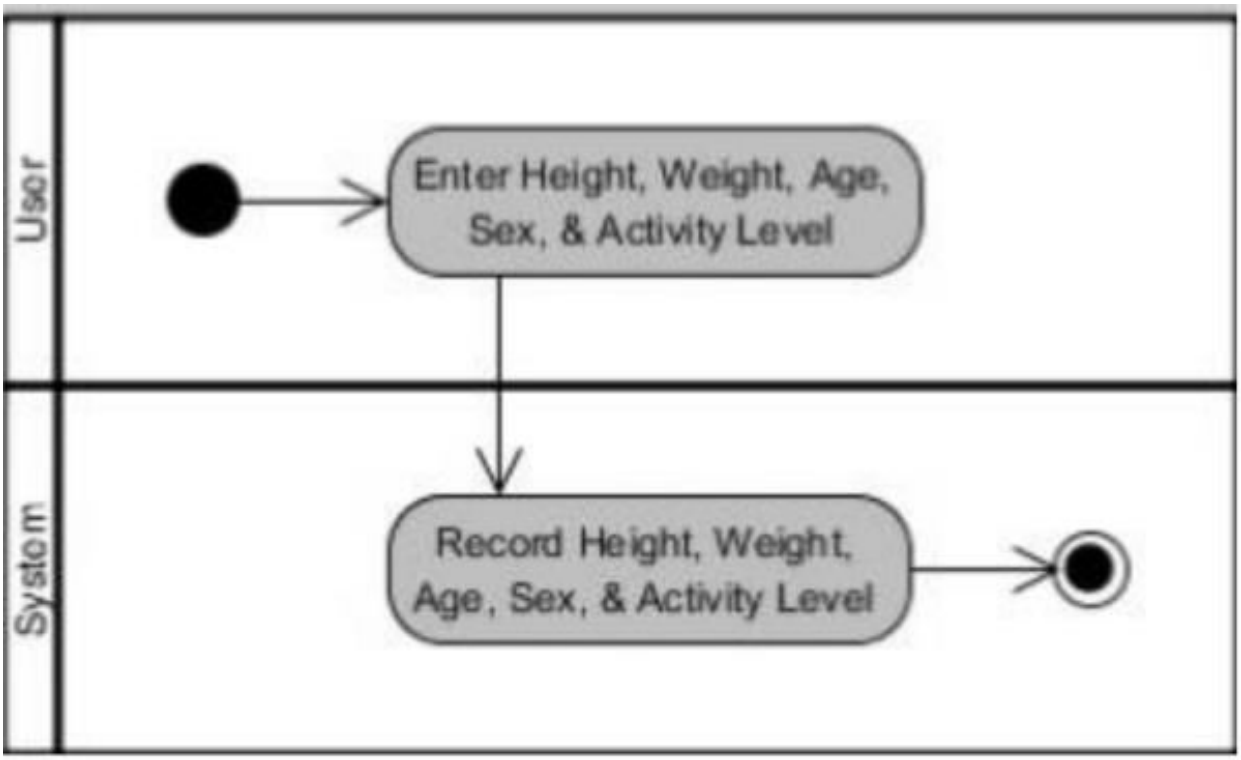
1.



2.

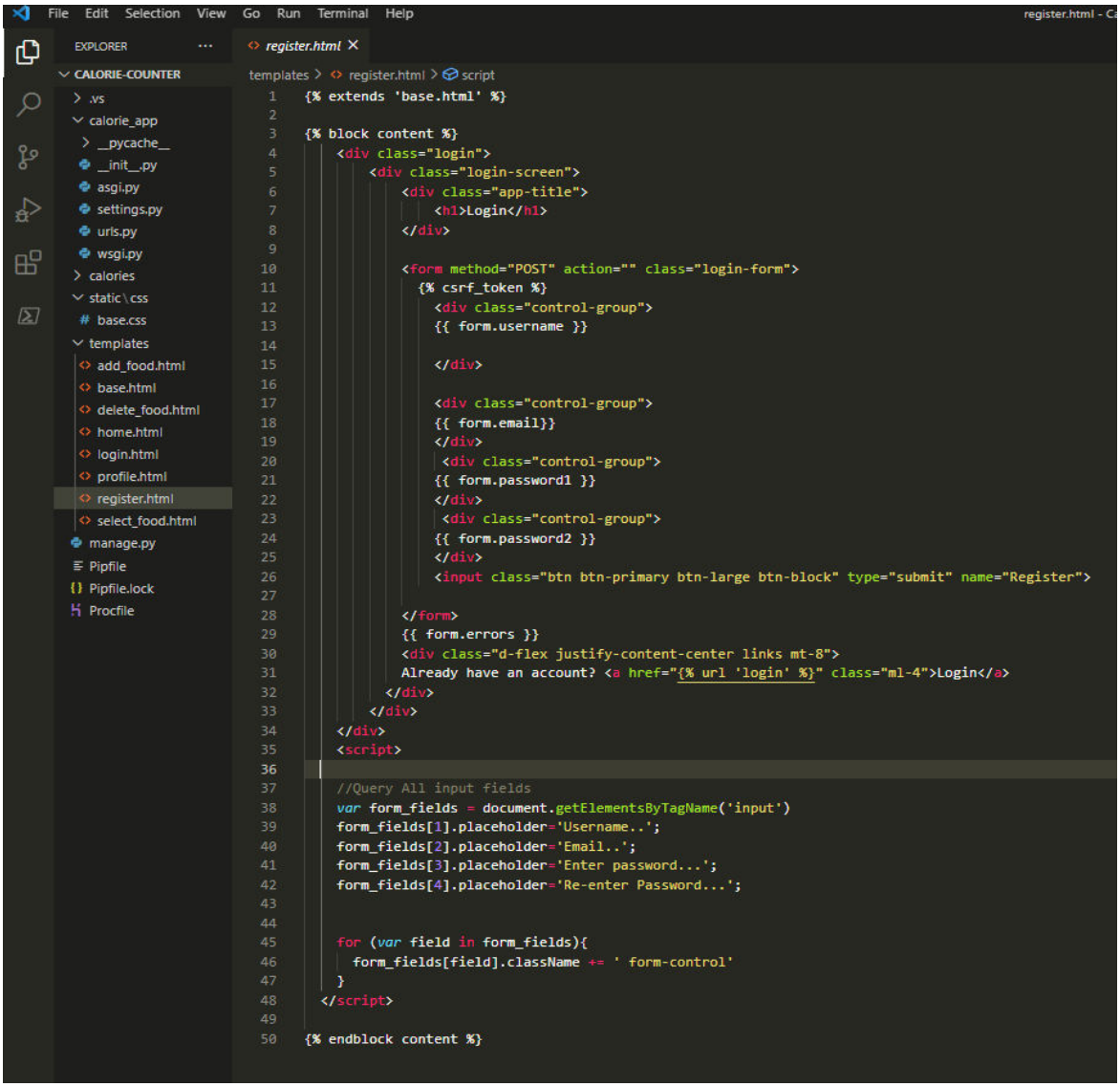

User
Program
Patient
Patient Registry
Requsting Petient DATA
Show Patient Registry
Show Petient Registry
Creating Temp Petient
Calculate and send the Daily Calories Recommended Ideail Body Weight
Daily Calories Recommended Ideail Body Weight
Quiite Programe

Activity diagram:

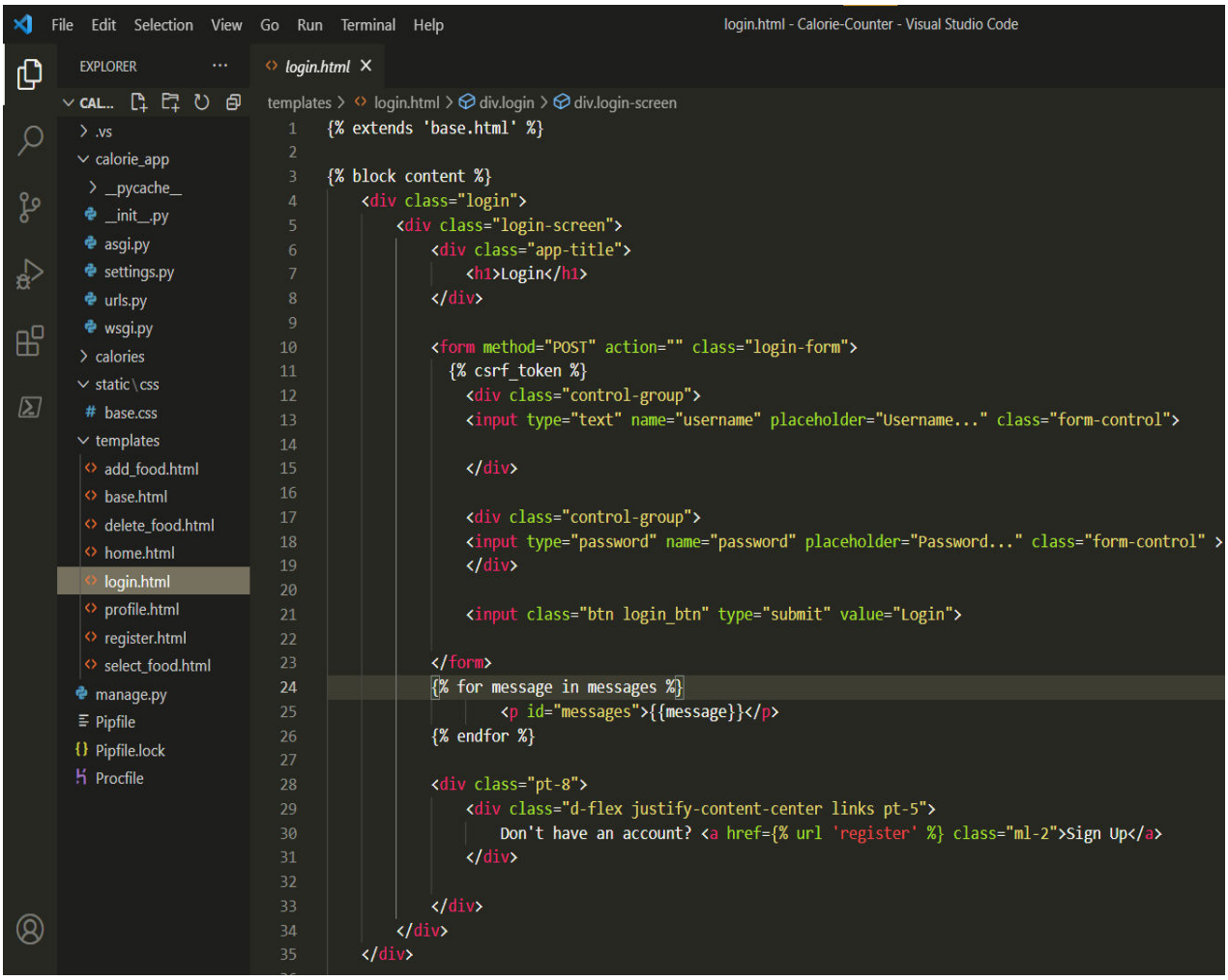


Implements details

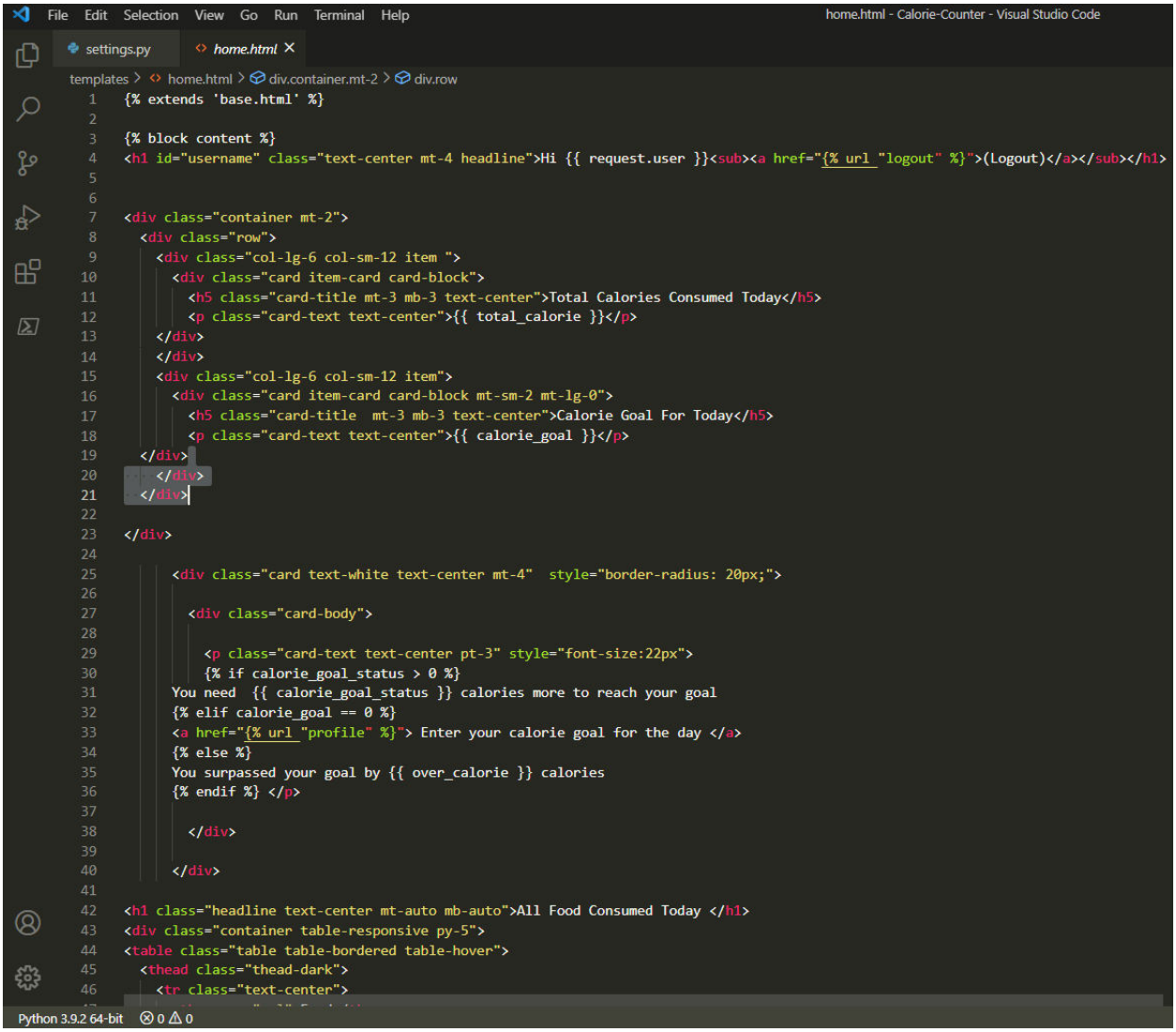
Sign up module:



Login module:



Home module:


File Edit Selection View Go Run Terminal Help
home.html - Calorie-Counter - Visual Studio Code
settings.py
home.html
templates > home.html > div.container.mt-2 > div.row
{% extends 'base.html' %}
{% block content %}
<h1 id="username" class="text-center mt-4 headline">Hi {{ request.user }}_{<a href="{% url "logout" %}">(Logout)</a>}</h1>

<h5 class="card-title mt-3 mb-3 text-center">Total Calories Consumed Today</h5>
{{ total_calorie }}

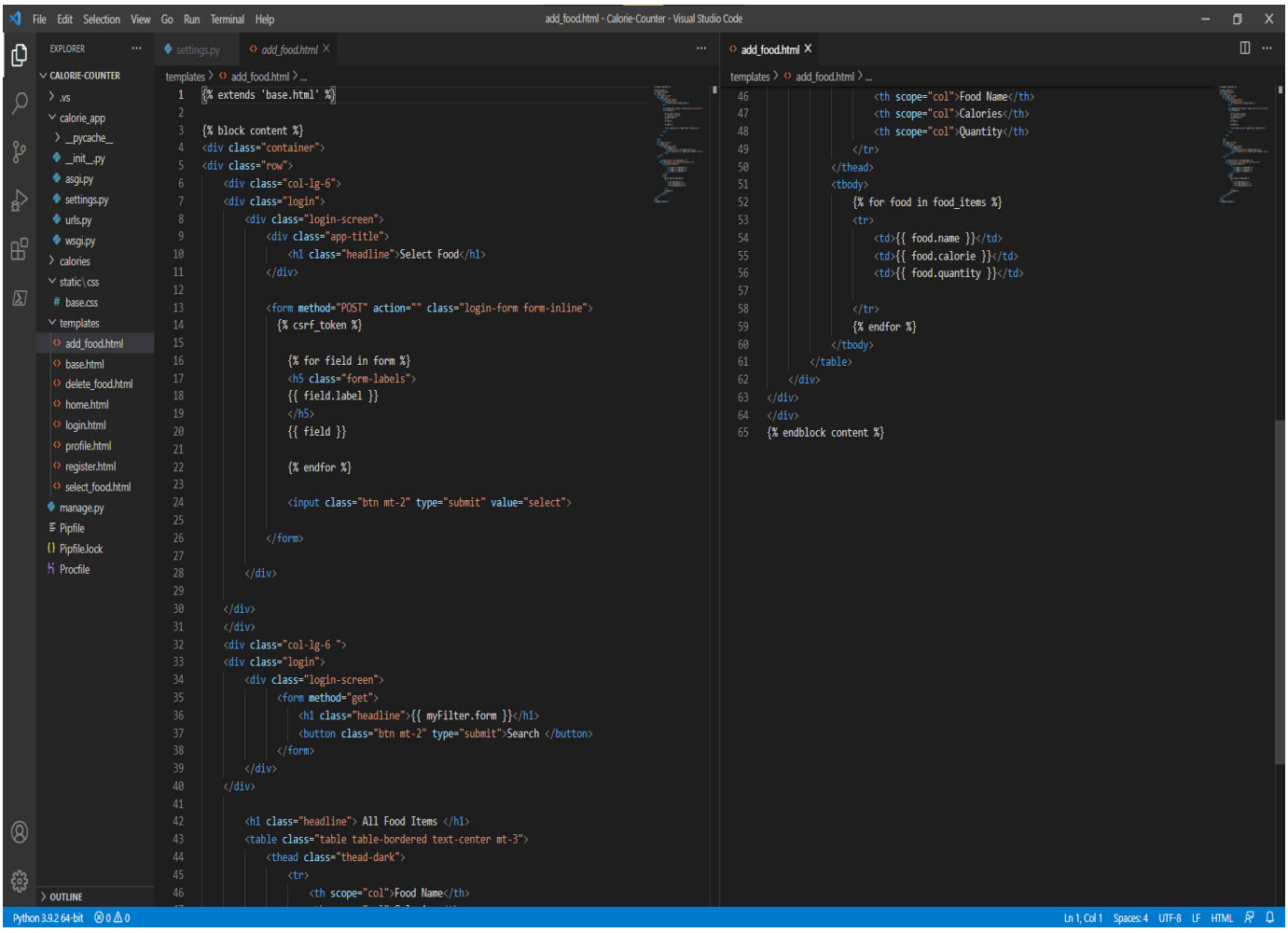
<h5 class="card-title mt-3 mb-3 text-center">Calorie Goal For Today</h5>
{{ calorie_goal }}

{% if calorie_goal_status > 0 %}
You need {{ calorie_goal_status }} calories more to reach your goal
{% elif calorie_goal == 0 %}
<a href="{% url "profile" %}"> Enter your calorie goal for the day </a>
{% else %}
You surpassed your goal by {{ over_calorie }} calories
{% endif %}

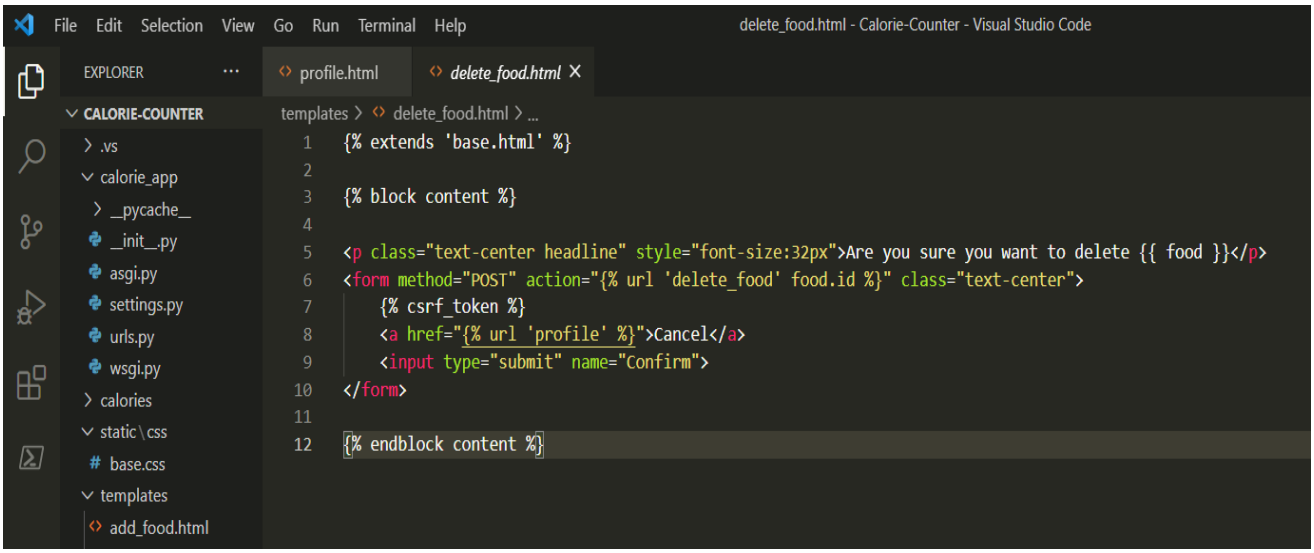
<h1 class="headline text-center mt-auto mb-auto">All Food Consumed Today </h1>

<table class="table table-bordered table-hover">
<thead class="thead-dark">
<tr class="text-center">
Python 3.9.2 64-bit
0 0

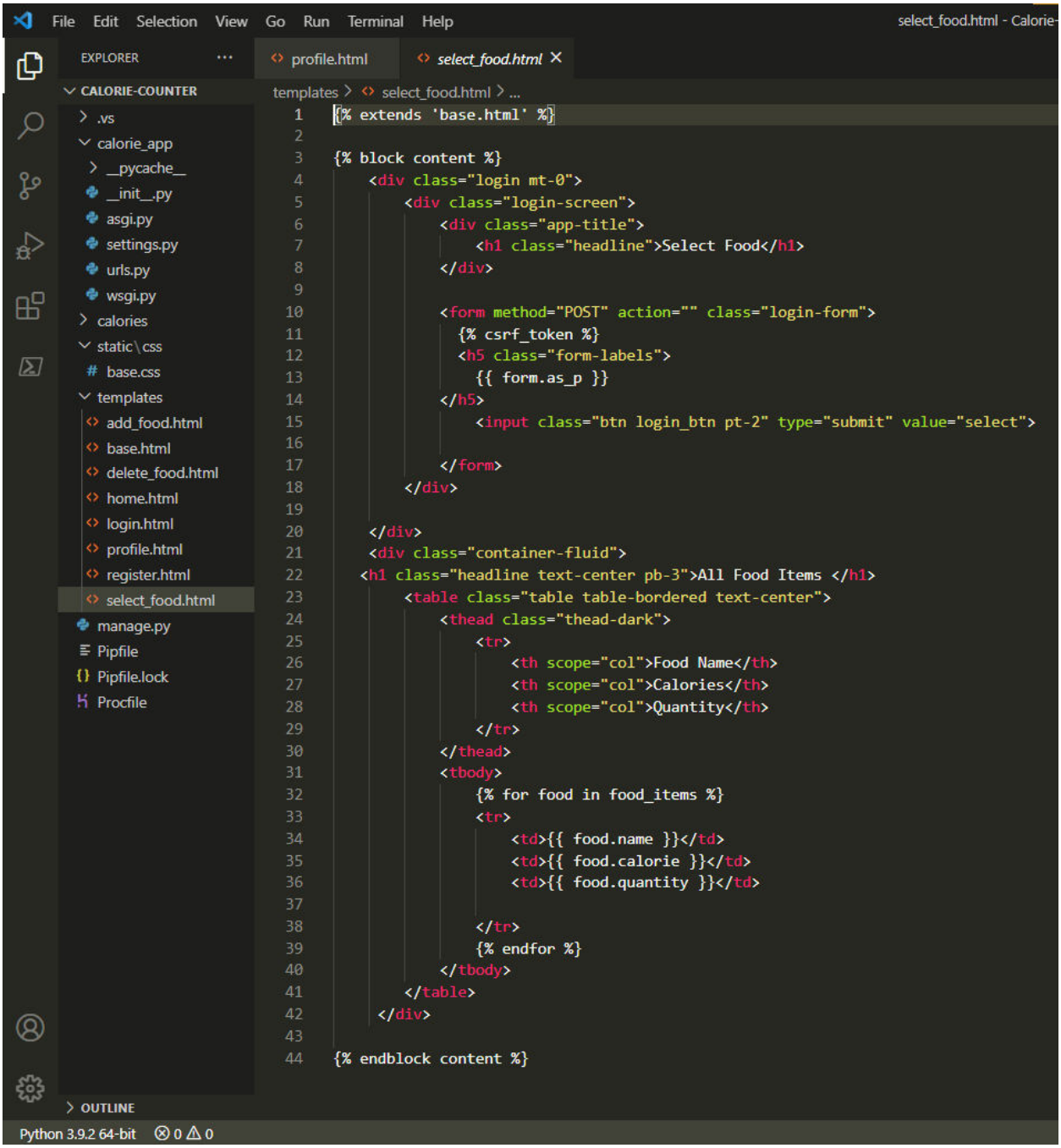
Add food module:



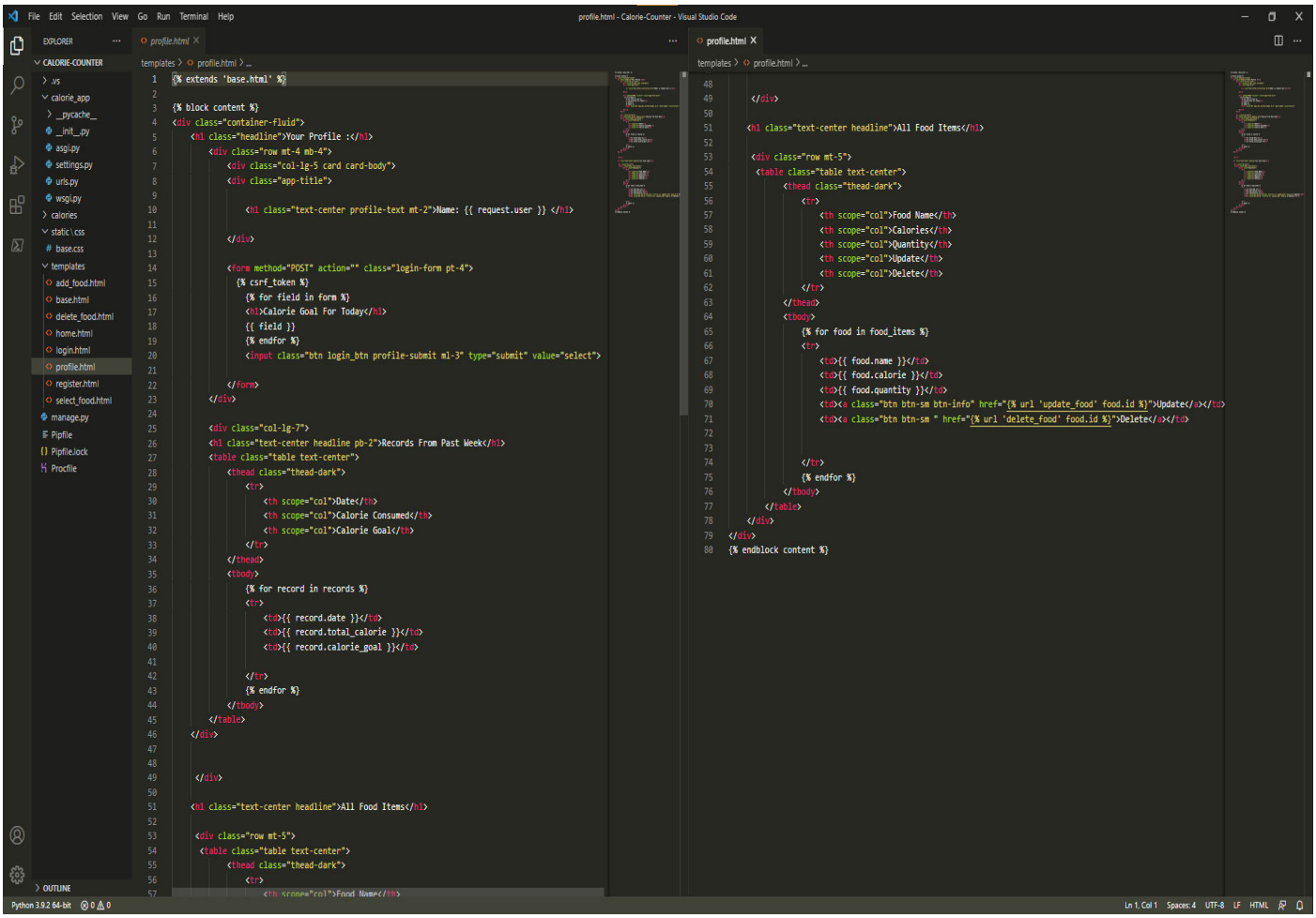
Delete food module:



Select food module:

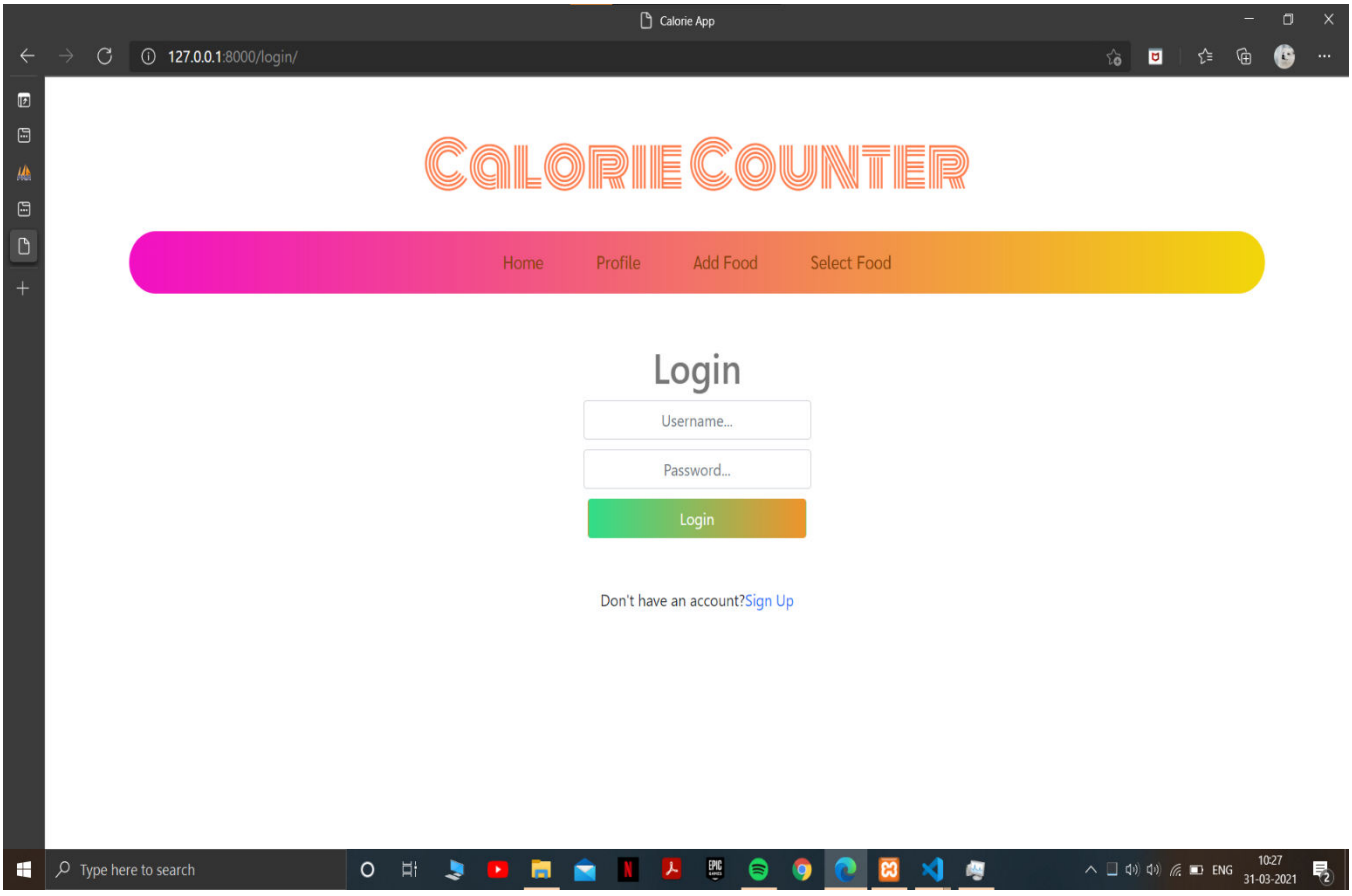


Profile module:

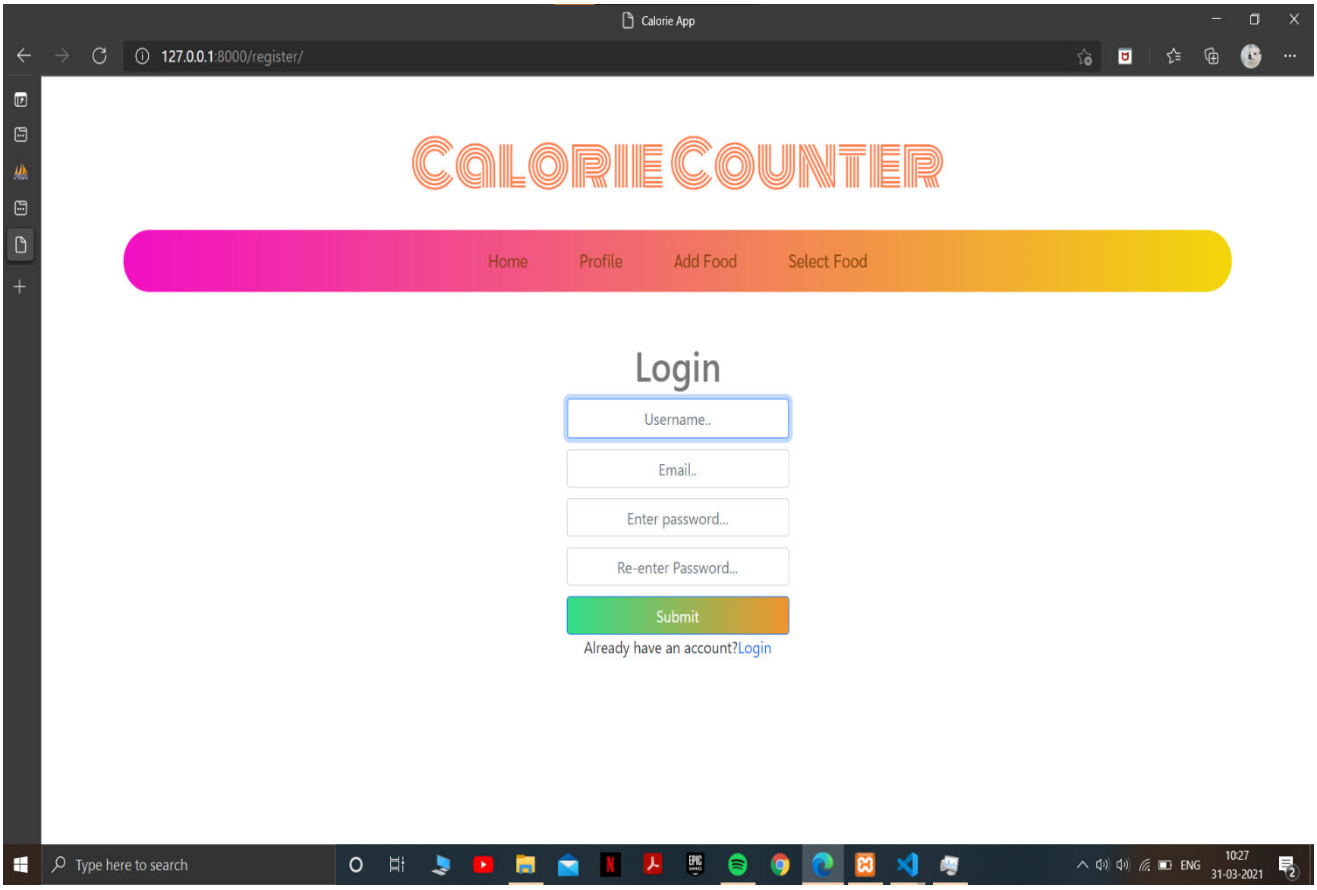


Layouts

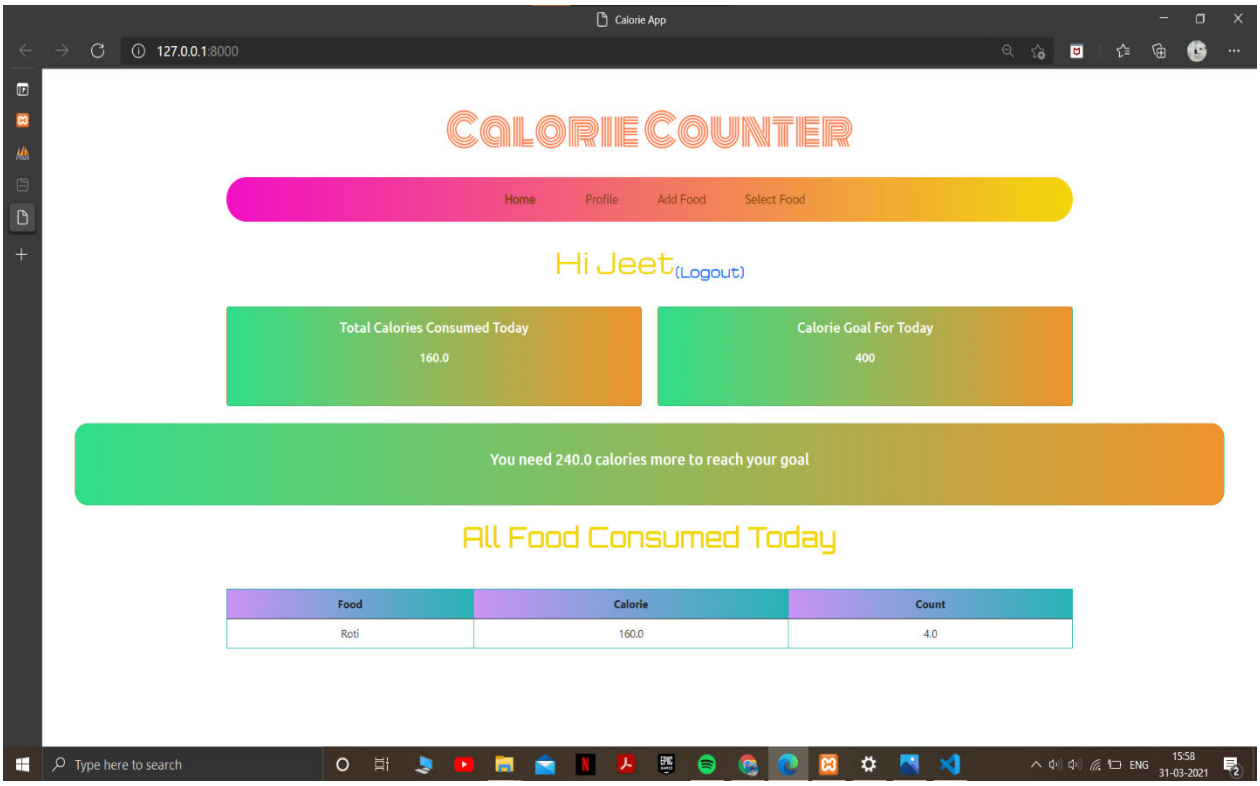
Login layout



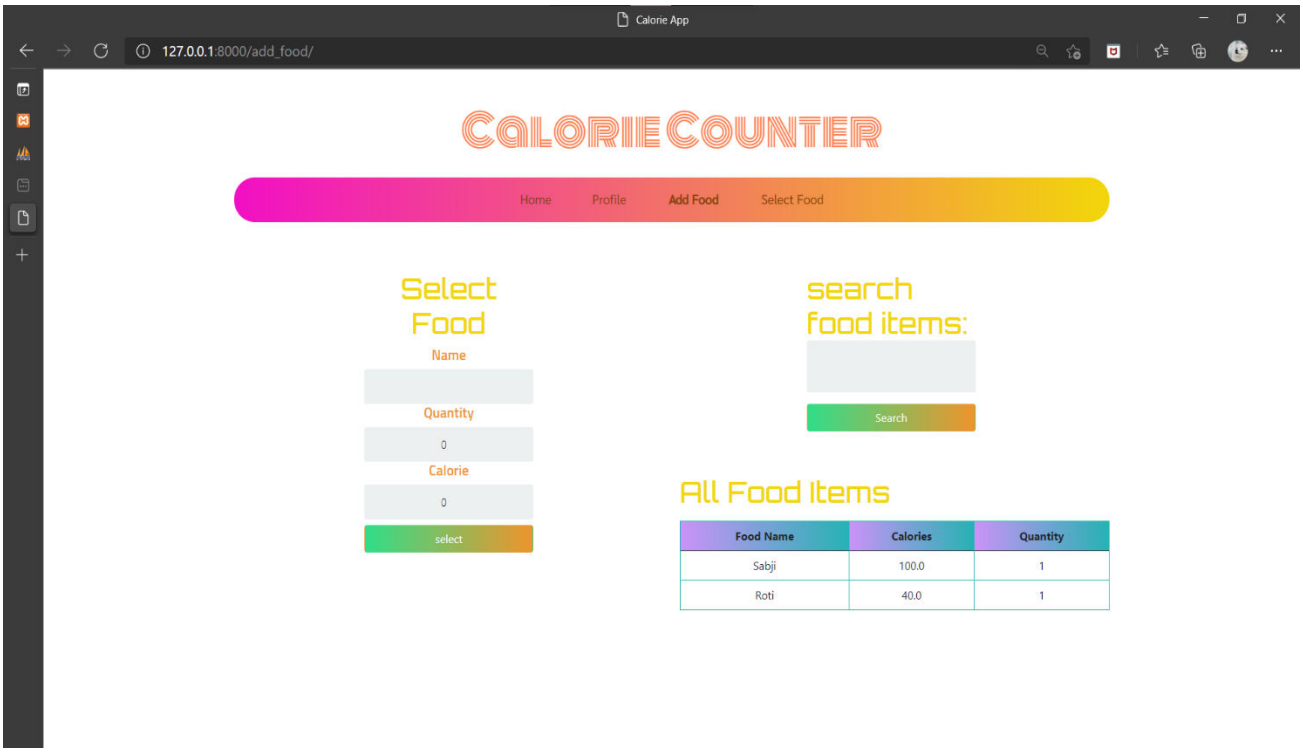
Sign up layout:



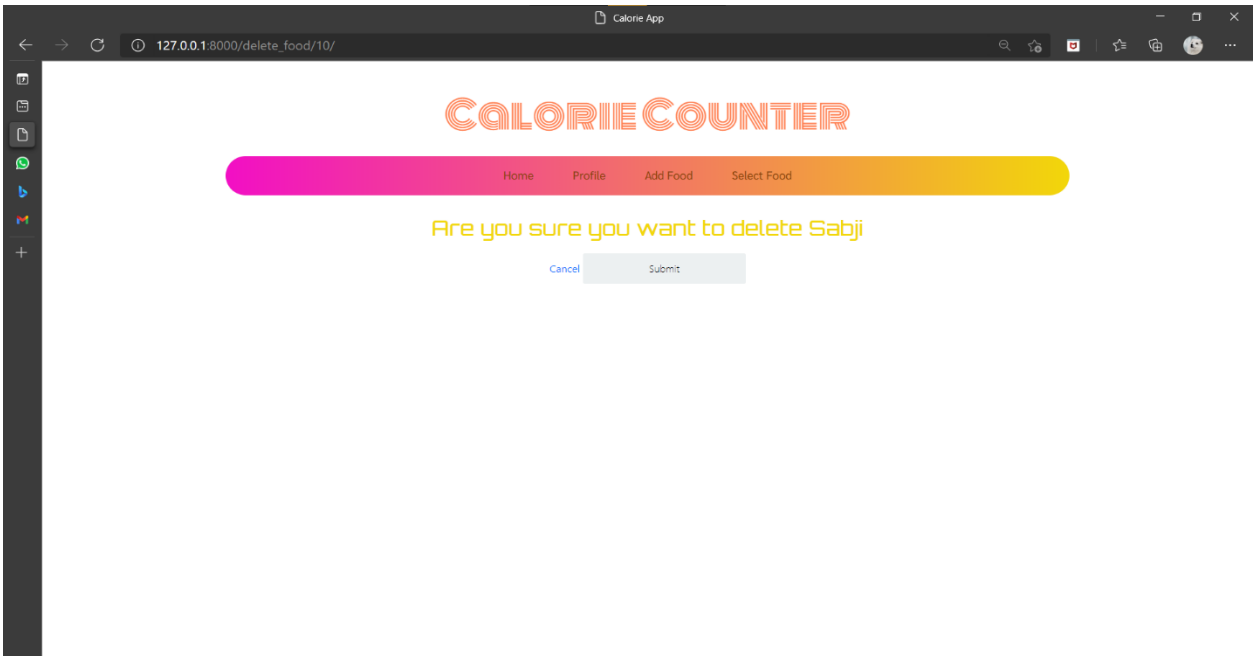
Home layout:


Calorie App
127.0.0.1:8000
CalorieCounter
Home
Profile
Add Food
Select Food
Hi Jeet(Logout)
Total Calories Consumed Today
160.0
Calorie Goal For Today
400
You need 240.0 calories more to reach your goal
All Food Consumed Today
Food
Calorie
Count
Roti
160.0
4.0
Type here to search
ENG
15:58
31-03-2021

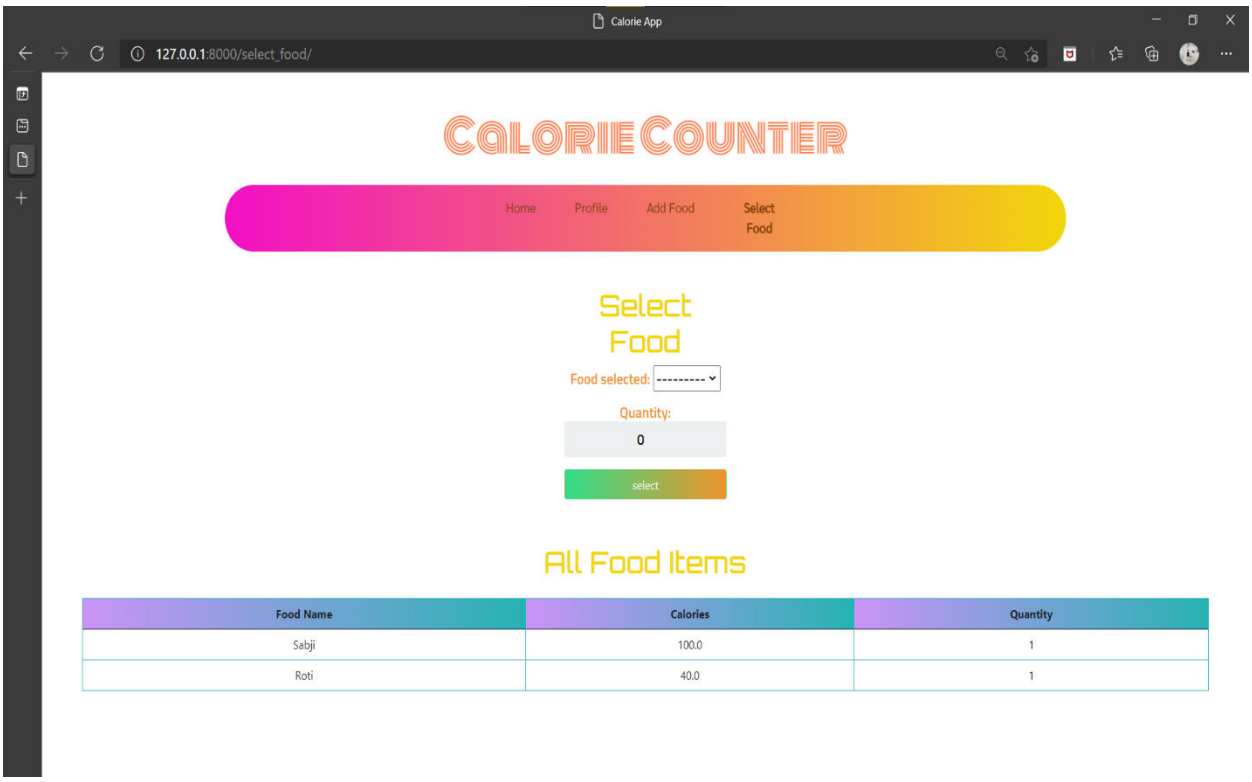
Add food module:



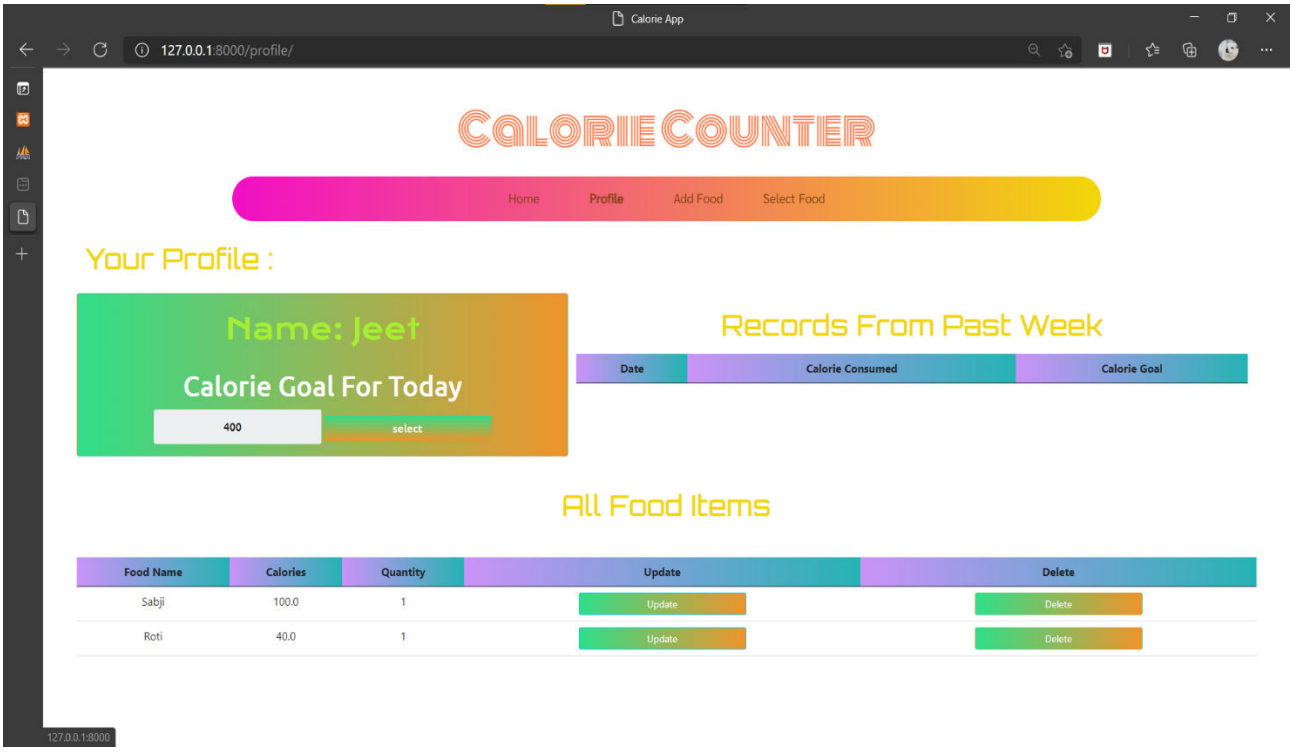
Delete food:


Calorie App
127.0.0.1:8000/delete_food/10/
CalorieCounter
Home
Profile
Add Food
Select Food
Are you sure you want to delete Sabji
Cancel
Submit

Select food module:



Profile page layout:



Conclusion:

By the successful deployment of calorie counter this application will be always helpful who needs it. A person who wants loose or gain weight then this application will help user to increase or decrease the weight accordingly. This application is also helpful to those who doctor suggests a calorie diet. As health is wealth this application helps a person to become healthy.

Limitations and future extensions:

Limitations:

This application does not follow BMI or BMR. You have to add food items regularly as per your intake. Limited credential is taken from the user.

Future extensions:

User interface will be improved to provide better interaction with system by giving updates and solving bugs. In future there may be addition of BMI and BMR for easiness for following it.

Bibliography

Website: https://creately.com/

https://www.lucidchart.com/pages/

Search engine: https://www.google.com/