
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
carried out in the subject of
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

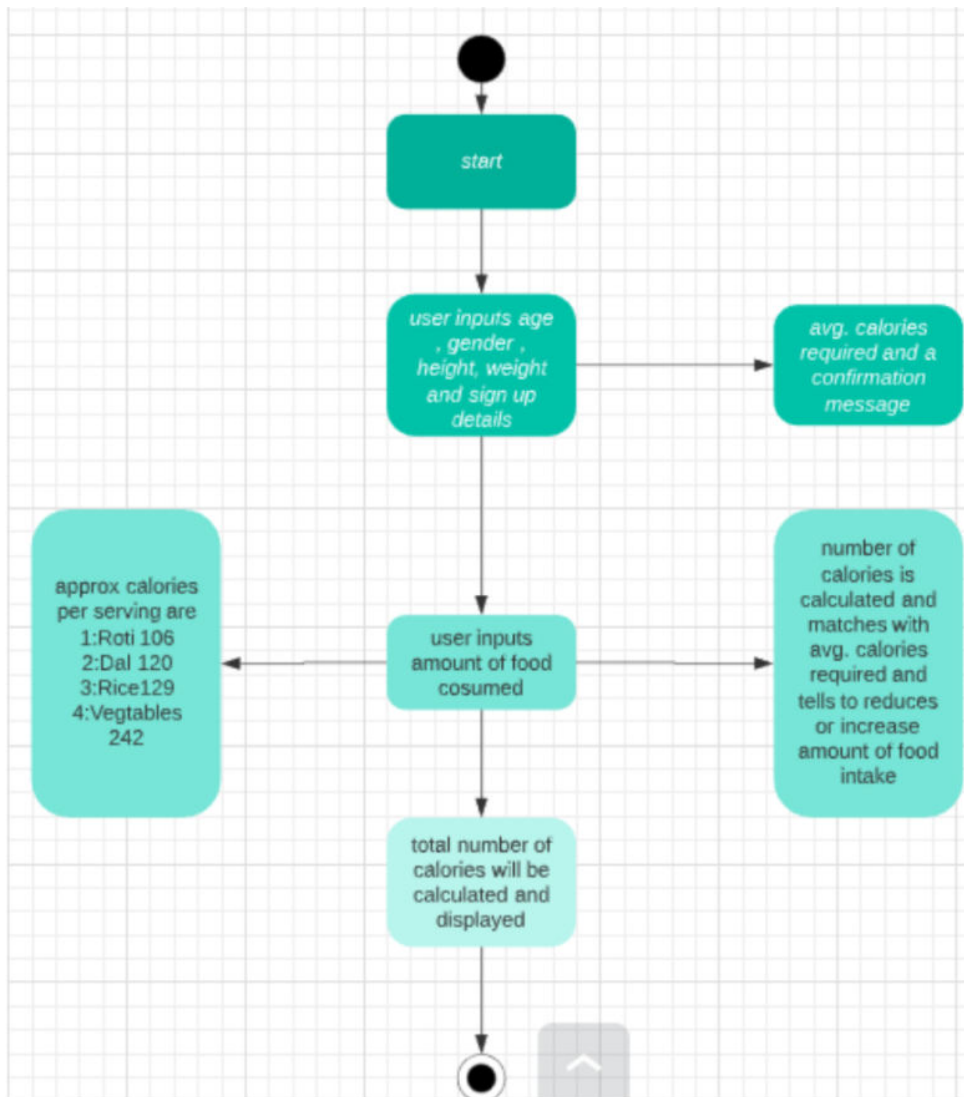
Description: If user wants to delete the data, he or she can do it by just pressing on delete

Input: User selection

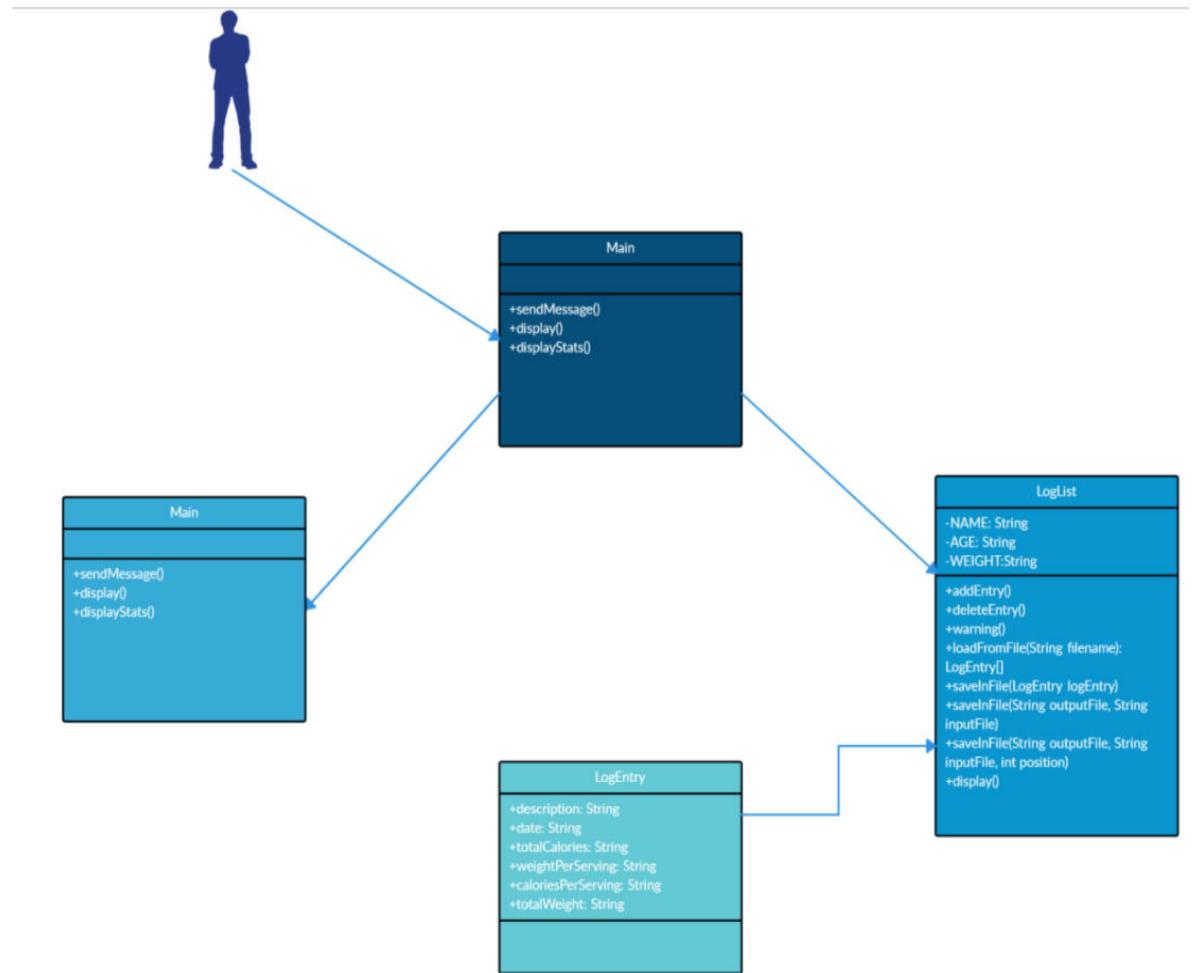
Output: Data deleted

Design

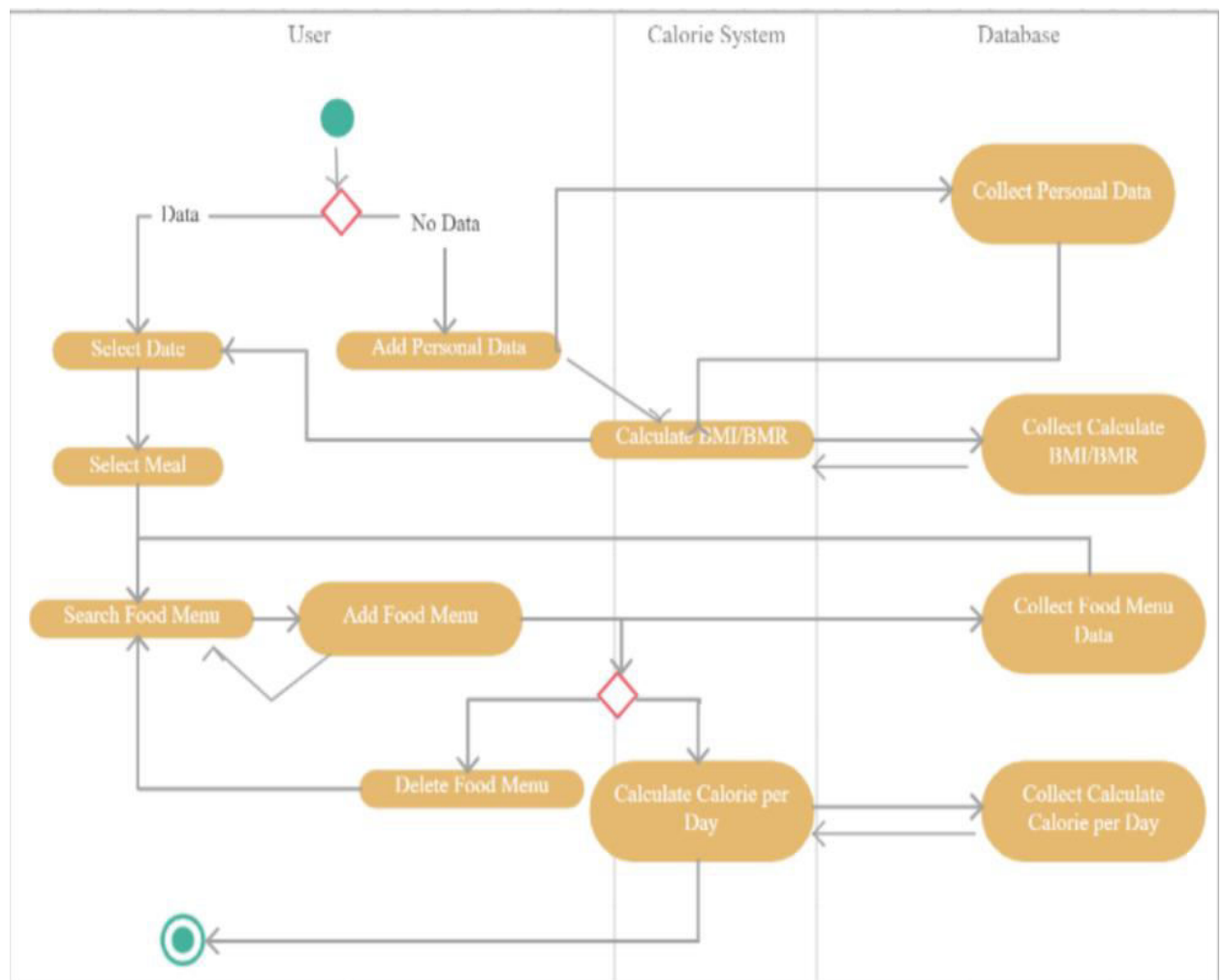
Use case diagram:



Class diagram:

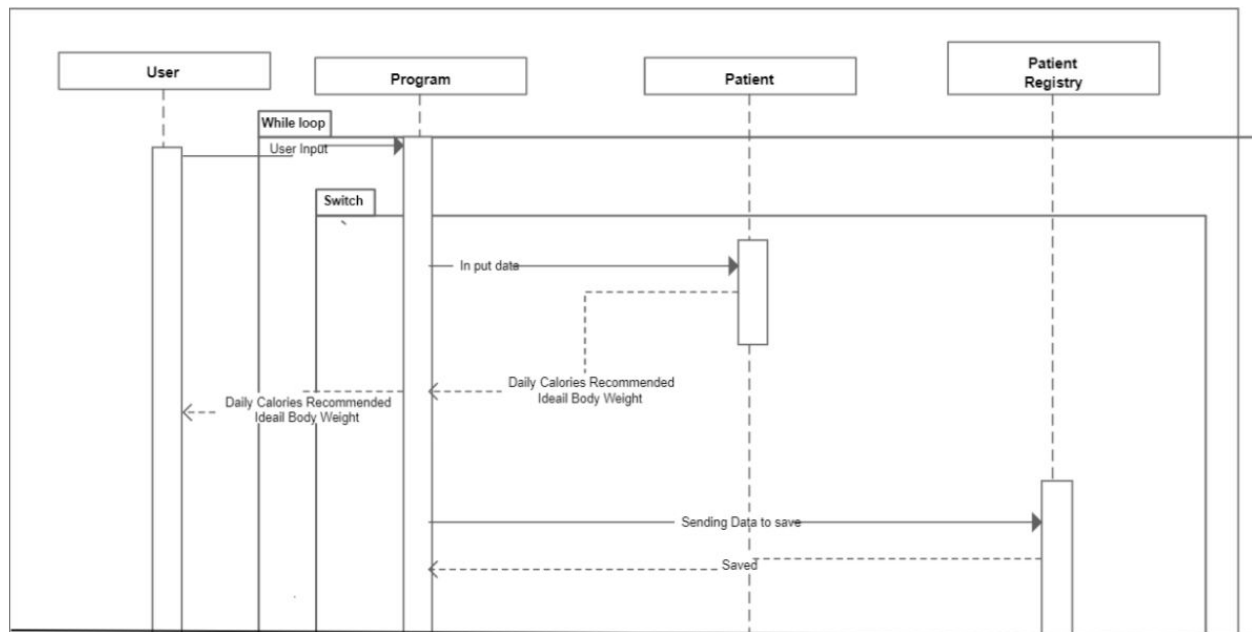


DFD model:

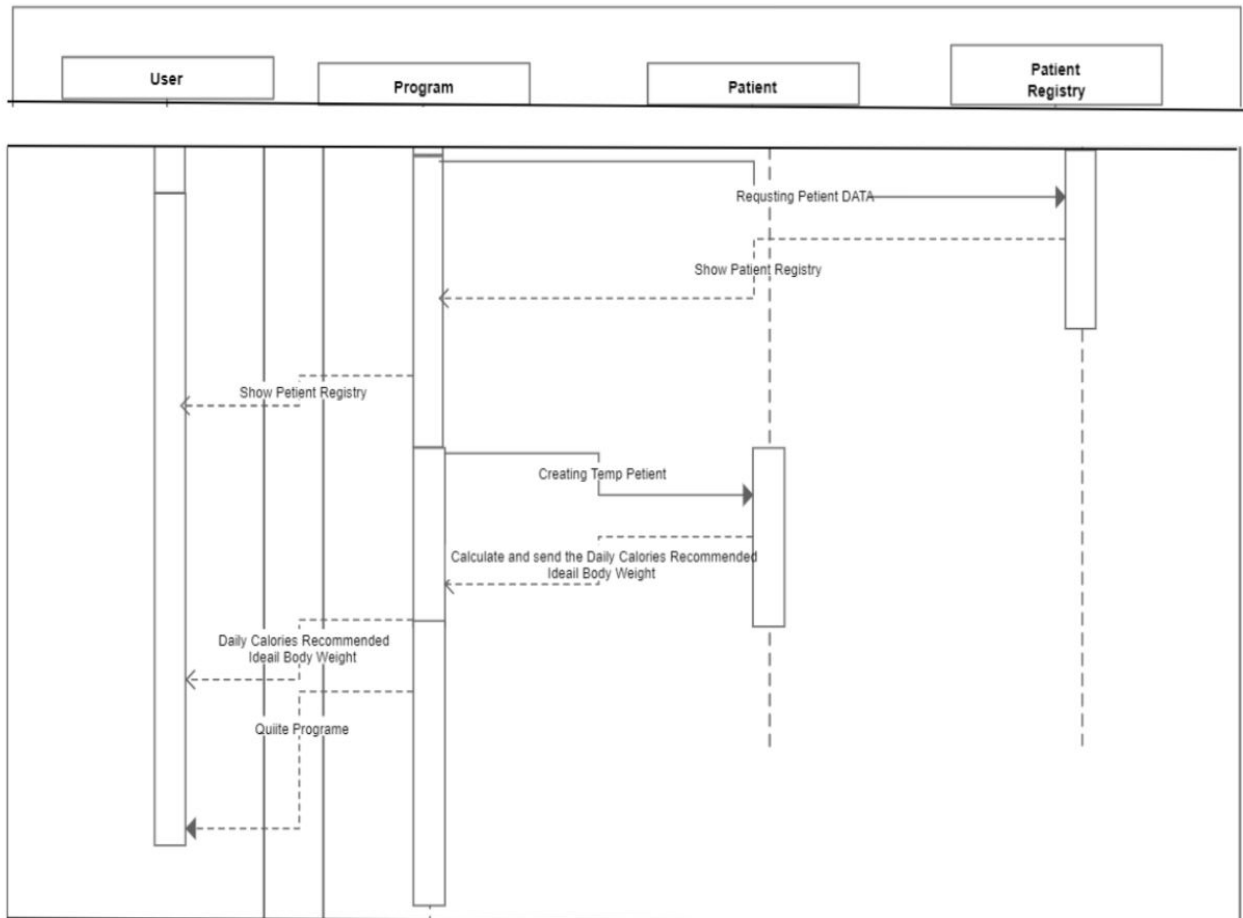


Sequence diagram:

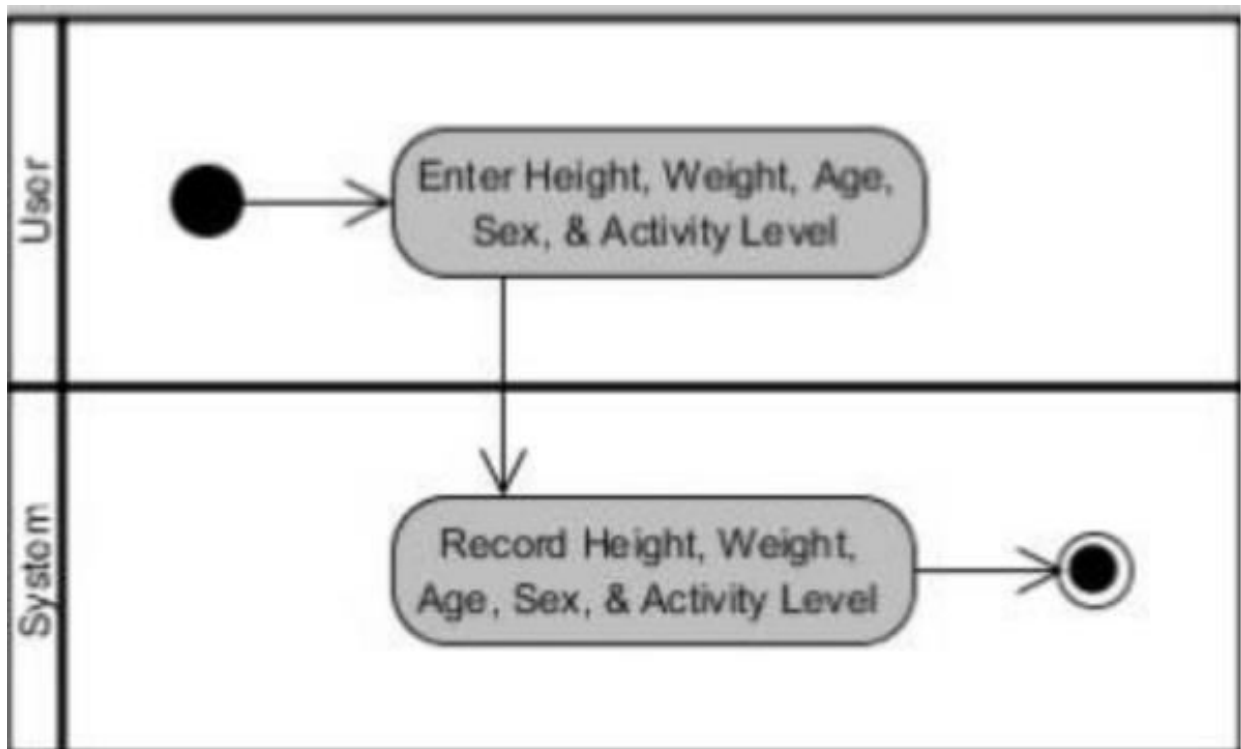
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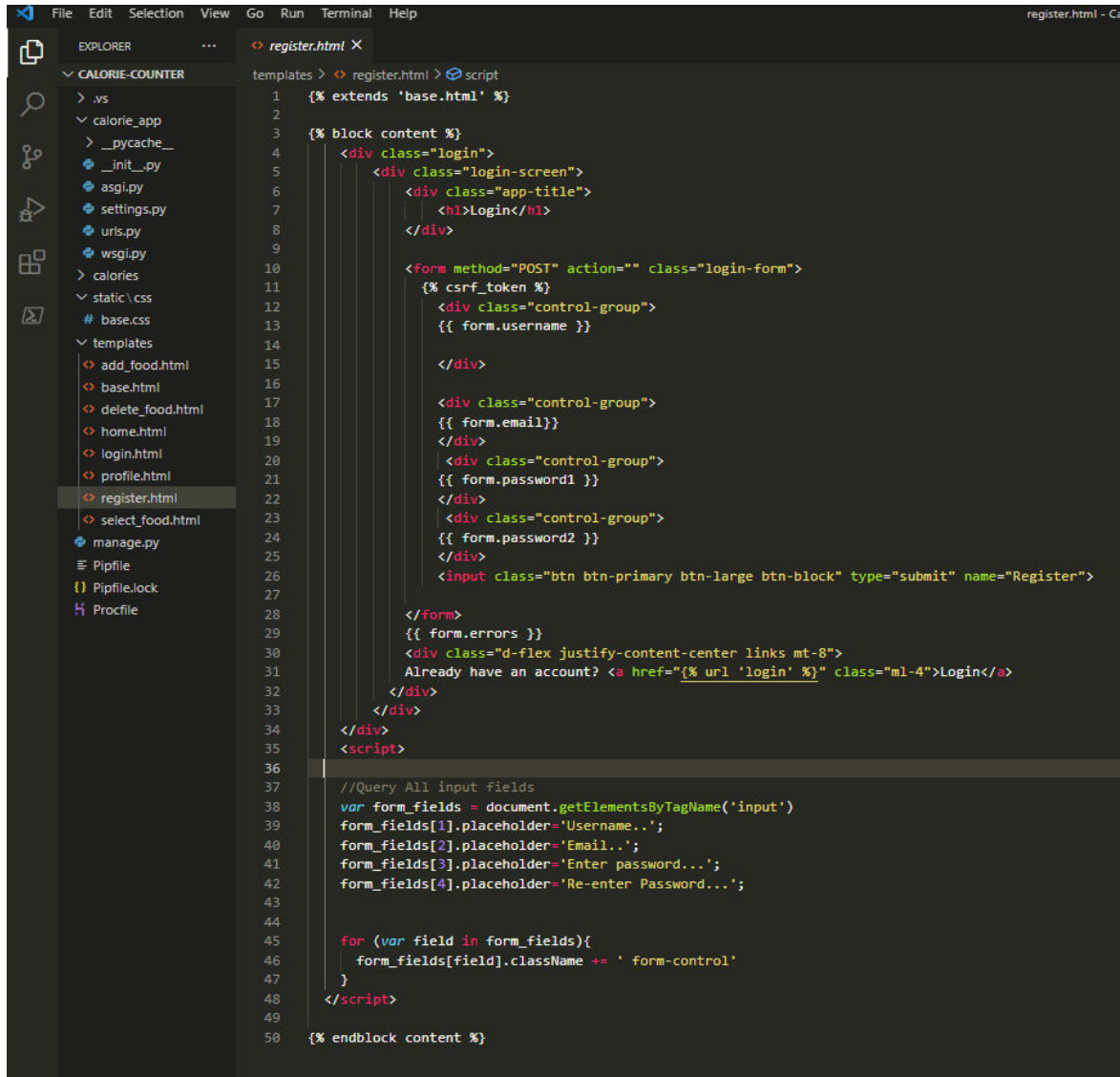


Activity diagram:



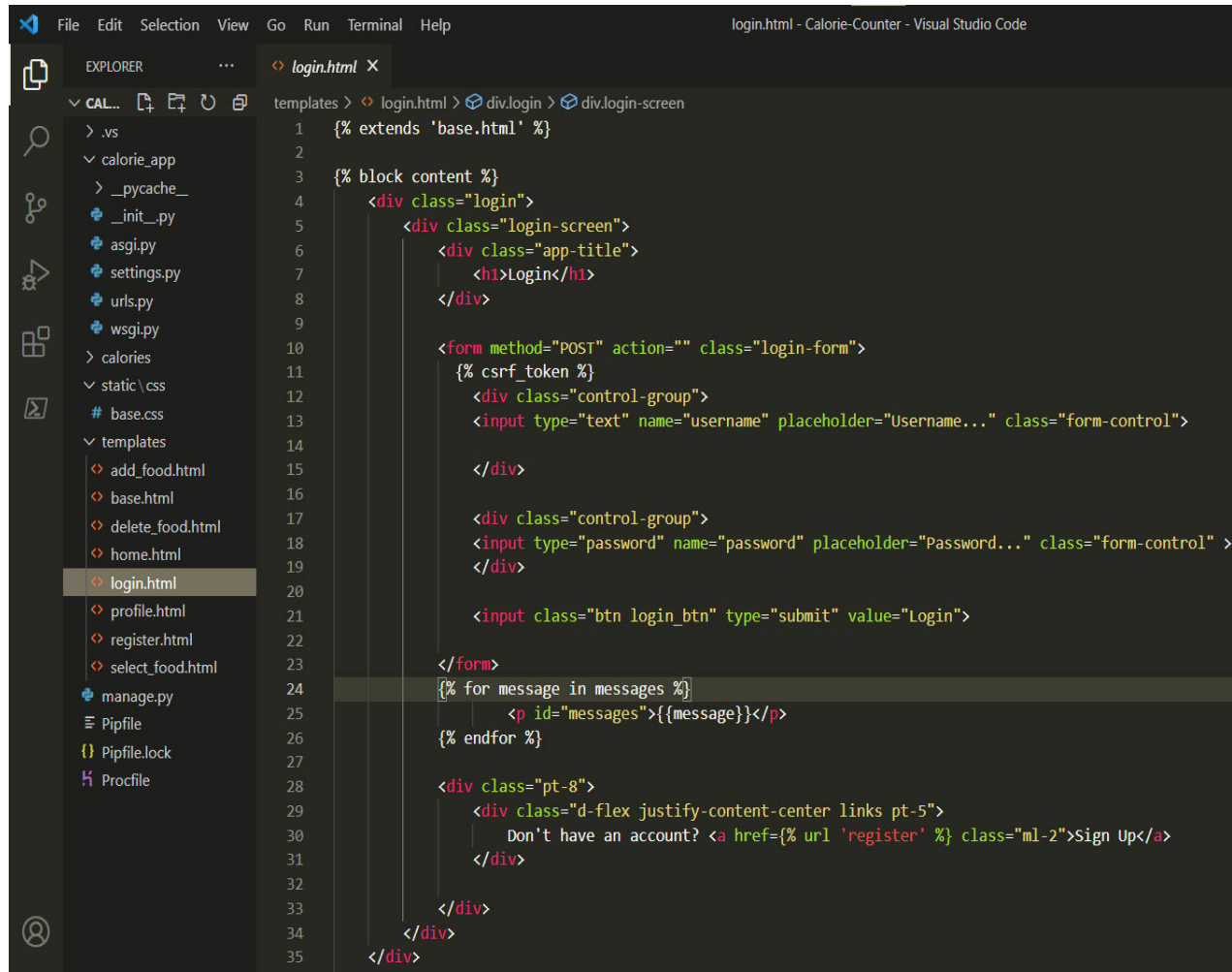
Implements details

Sign up module:



```
1  {% extends 'base.html' %}
2
3  {% block content %}
4      <div class="login">
5          <div class="login-screen">
6              <div class="app-title">
7                  <h1>Login</h1>
8              </div>
9
10             <form method="POST" action="" class="login-form">
11                 {% csrf_token %}
12                 <div class="control-group">
13                     {{ form.username }}
14                 </div>
15
16                 <div class="control-group">
17                     {{ form.email }}
18                 </div>
19
20                 <div class="control-group">
21                     {{ form.password1 }}
22                 </div>
23
24                 <div class="control-group">
25                     {{ form.password2 }}
26                 </div>
27
28                 <input class="btn btn-primary btn-large btn-block" type="submit" name="Register">
29
30             </form>
31             {{ form.errors }}
32             <div class="d-flex justify-content-center links mt-8">
33                 Already have an account? <a href="{% url 'login' %}" class="ml-4">Login</a>
34             </div>
35         </div>
36     </div>
37 </script>
38
39 //Query All input fields
40 var form_fields = document.getElementsByTagName('input')
41 form_fields[1].placeholder='Username..';
42 form_fields[2].placeholder='Email..';
43 form_fields[3].placeholder='Enter password...';
44 form_fields[4].placeholder='Re-enter Password...';
45
46 for (var field in form_fields){
47     form_fields[field].className += ' form-control'
48 }
49 </script>
50 {% endblock content %}
```

Login module:

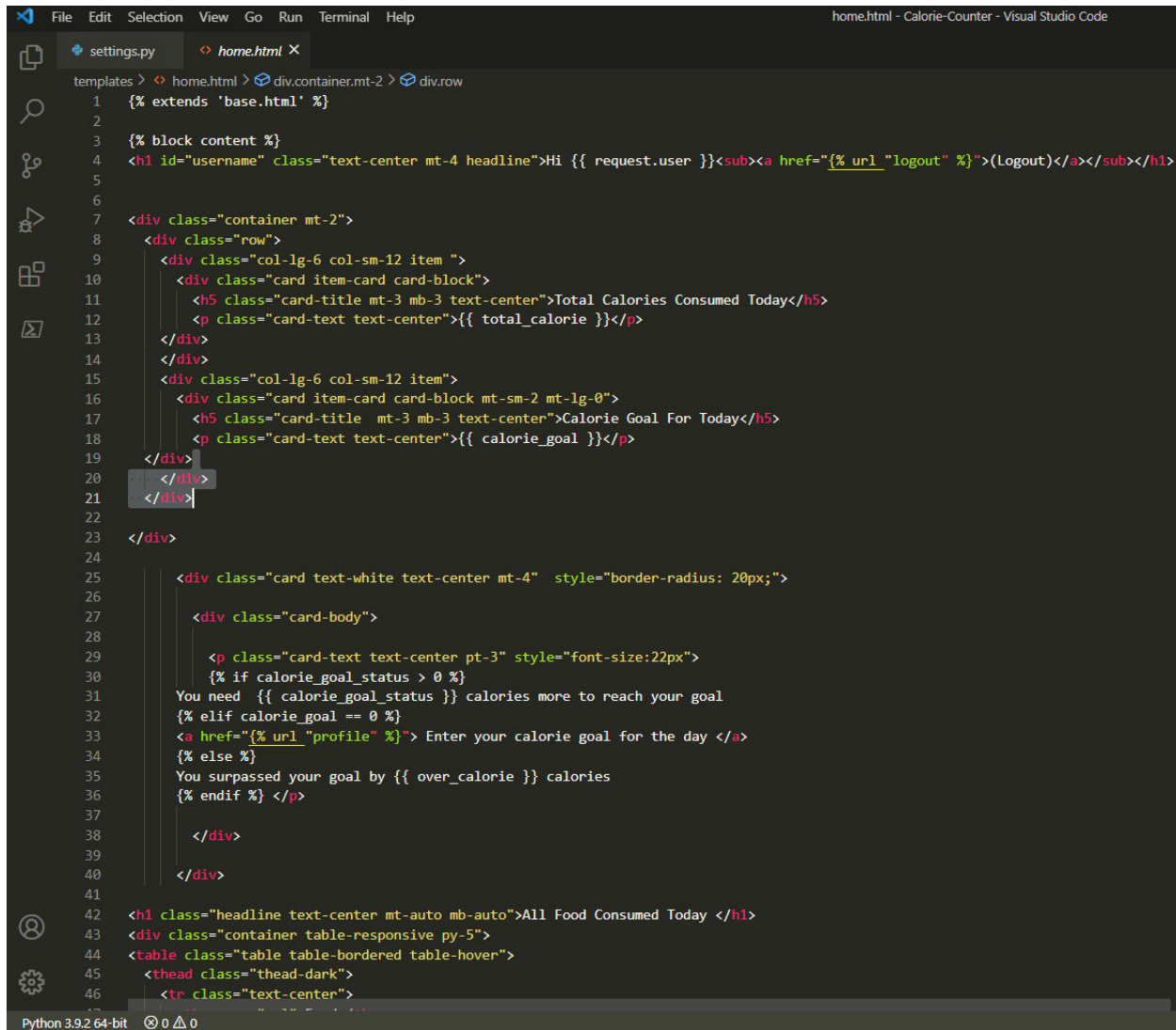


```
login.html - Calorie-Counter - Visual Studio Code

EXPLORER
  CAL...
  > .vs
  > calorie_app
  > __pycache__
  > __init__.py
  > asgi.py
  > settings.py
  > urls.py
  > wsgi.py
  > calories
  > static\css
  > # base.css
  > templates
    > add_food.html
    > base.html
    > delete_food.html
    > home.html
    > login.html
    > profile.html
    > register.html
    > select_food.html
  > manage.py
  > Pipfile
  > Pipfile.lock
  > Procfile

templates > login.html > div.login > div.login-screen
1 {% extends 'base.html' %}
2
3 {% block content %}
4     <div class="login">
5         <div class="login-screen">
6             <div class="app-title">
7                 <h1>Login</h1>
8             </div>
9
10            <form method="POST" action="" class="login-form">
11                {% csrf_token %}
12                <div class="control-group">
13                    <input type="text" name="username" placeholder="Username..." class="form-control">
14                </div>
15
16                <div class="control-group">
17                    <input type="password" name="password" placeholder="Password..." class="form-control">
18                </div>
19
20                <input class="btn login_btn" type="submit" value="Login">
21            </form>
22
23            {% for message in messages %}
24                <p id="messages">{{ message }}</p>
25            {% endfor %}
26
27            <div class="pt-8">
28                <div class="d-flex justify-content-center links pt-5">
29                    Don't have an account? <a href="{% url 'register' %}" class="ml-2">Sign Up</a>
30                </div>
31            </div>
32        </div>
33    </div>
34{% endblock %}
```

Home module:

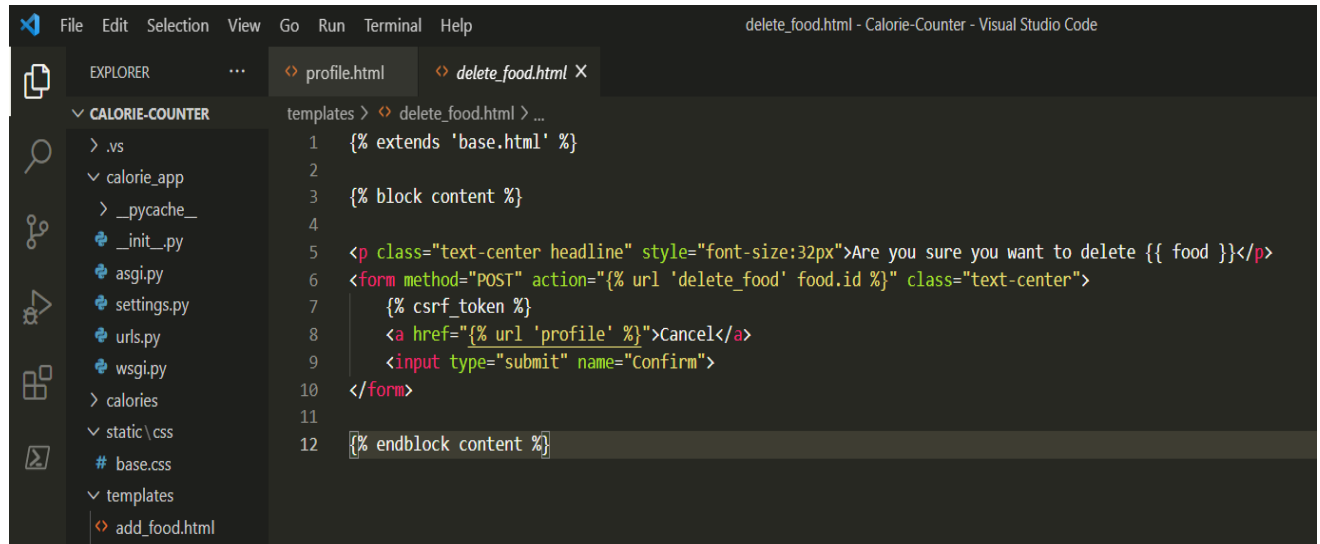


```
File Edit Selection View Go Run Terminal Help
home.html - Calorie-Counter - Visual Studio Code

templates > home.html > div.container.mt-2 > div.row
1 {% extends 'base.html' %}
2
3 {% block content %}
4 <h1 id="username" class="text-center mt-4 headline">Hi {{ request.user }}<sub><a href="{% url 'logout' %}">(Logout)</a></sub></h1>
5
6
7 <div class="container mt-2">
8   <div class="row">
9     <div class="col-lg-6 col-sm-12 item">
10       <div class="card item-card card-block">
11         <h5 class="card-title mt-3 mb-3 text-center">Total Calories Consumed Today</h5>
12         <p class="card-text text-center">{{ total_calorie }}</p>
13       </div>
14     </div>
15     <div class="col-lg-6 col-sm-12 item">
16       <div class="card item-card card-block mt-sm-2 mt-lg-0">
17         <h5 class="card-title mt-3 mb-3 text-center">Calorie Goal For Today</h5>
18         <p class="card-text text-center">{{ calorie_goal }}</p>
19       </div>
20     </div>
21   </div>
22
23   <div class="card text-white text-center mt-4" style="border-radius: 20px;">
24     <div class="card-body">
25       <p class="card-text text-center pt-3" style="font-size:22px">
26         {% if calorie_goal_status > 0 %}
27         You need {{ calorie_goal_status }} calories more to reach your goal
28         {% elif calorie_goal == 0 %}
29         <a href="{% url 'profile' %}"> Enter your calorie goal for the day </a>
30         {% else %}
31         You surpassed your goal by {{ over_calorie }} calories
32         {% endif %} </p>
33     </div>
34   </div>
35
36   <h1 class="headline text-center mt-auto mb-auto">All Food Consumed Today </h1>
37   <div class="container table-responsive py-5">
38     <table class="table table-bordered table-hover">
39       <thead class="thead-dark">
40         <tr class="text-center">
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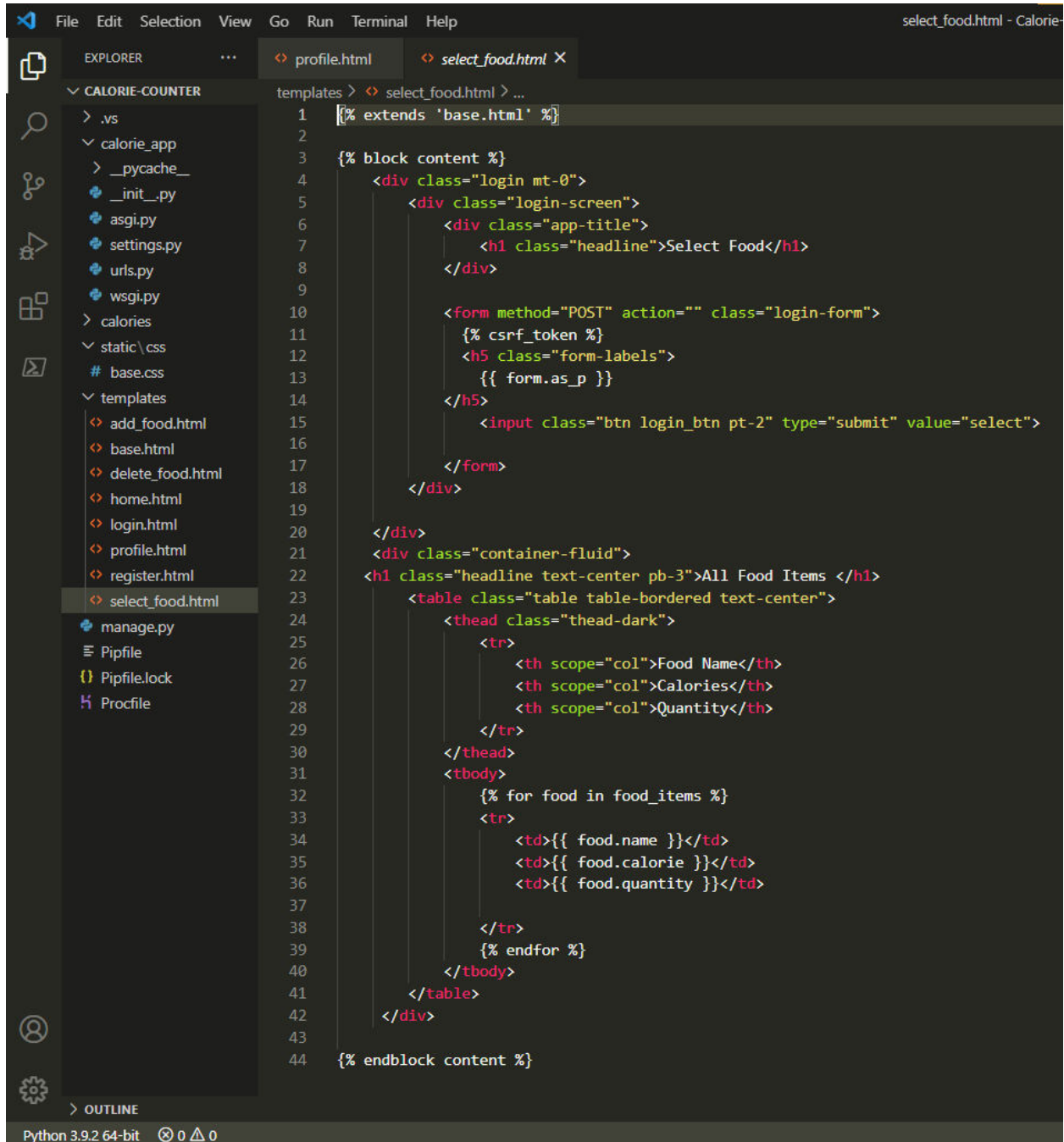
Delete food module:



The screenshot shows the Visual Studio Code editor interface. The Explorer sidebar on the left displays the project structure for 'CALORIE-COUNTER', including files like .vs, calorie_app, __pycache__, __init__.py, asgi.py, settings.py, urls.py, wsgi.py, calories, static/css, base.css, templates, and add_food.html. The main editor area shows the 'delete_food.html' file, which is a Django template. The code includes a Jinja2 block for content, a paragraph with a confirmation message, a form with a POST method to the 'delete_food' view, a cancel link to the 'profile' view, and a submit button. The code is as follows:

```
1 {% extends 'base.html' %}
2
3 {% block content %}
4
5 <p class="text-center headline" style="font-size:32px">Are you sure you want to delete {{ food }}</p>
6 <form method="POST" action="{% url 'delete_food' food.id %}" class="text-center">
7     {% csrf_token %}
8     <a href="{% url 'profile' %}">Cancel</a>
9     <input type="submit" name="Confirm">
10 </form>
11
12 {% endblock content %}
```

Select food module:



The screenshot shows a VS Code editor window with the file explorer on the left and the code editor in the center. The file explorer shows a project named 'CALORIE-COUNTER' with a 'templates' folder containing 'select_food.html'. The code editor displays the content of 'select_food.html', which is a Django template. The template extends 'base.html' and contains a login form and a table of food items.

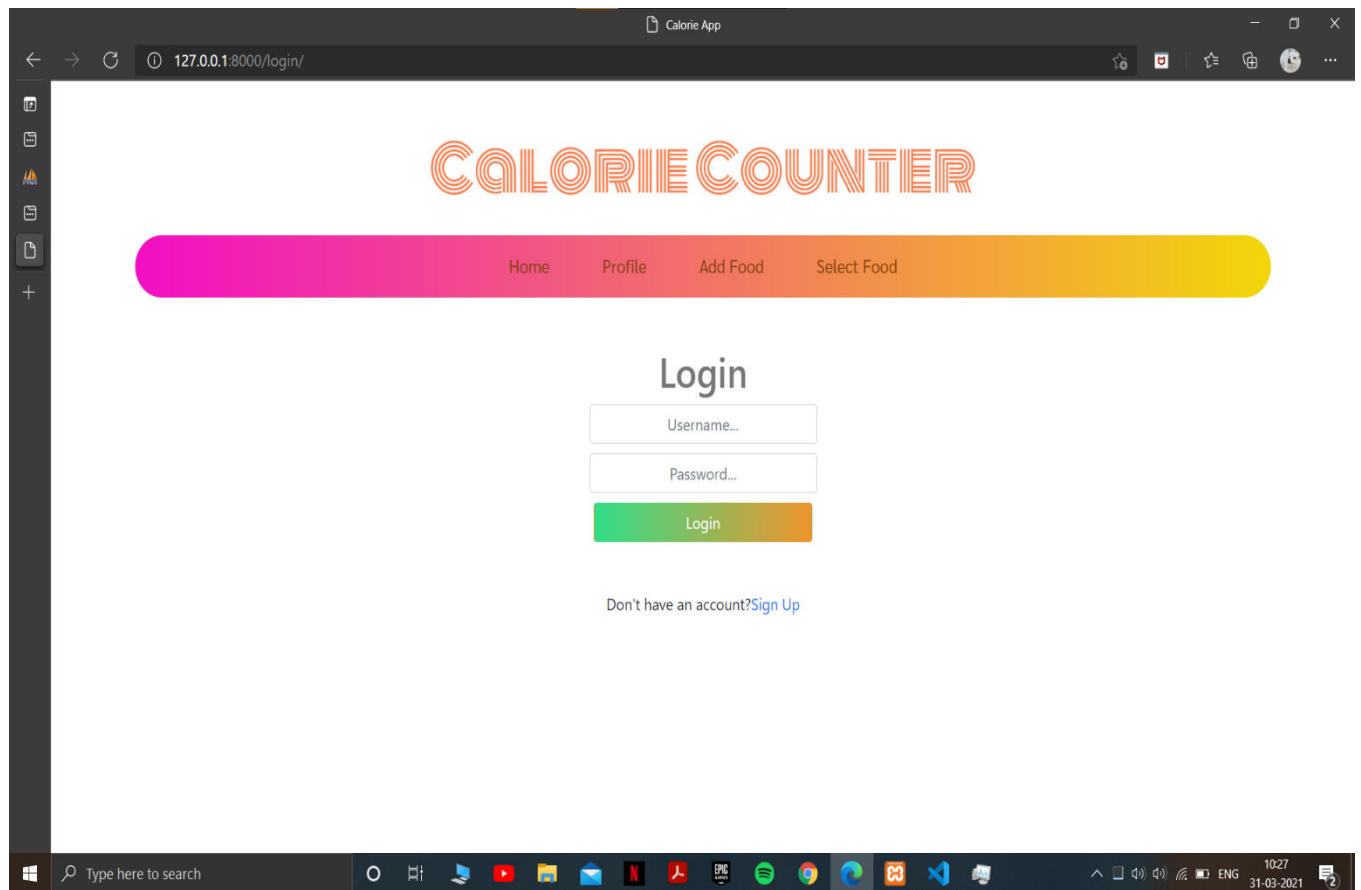
```
1 {% extends 'base.html' %}
2
3 {% block content %}
4     <div class="login mt-0">
5         <div class="login-screen">
6             <div class="app-title">
7                 <h1 class="headline">Select Food</h1>
8             </div>
9
10            <form method="POST" action="" class="login-form">
11                {% csrf_token %}
12                <h5 class="form-labels">
13                    {{ form.as_p }}
14                </h5>
15                <input class="btn login_btn pt-2" type="submit" value="select">
16            </form>
17        </div>
18    </div>
19
20    <div class="container-fluid">
21        <h1 class="headline text-center pb-3">All Food Items </h1>
22        <table class="table table-bordered text-center">
23            <thead class="thead-dark">
24                <tr>
25                    <th scope="col">Food Name</th>
26                    <th scope="col">Calories</th>
27                    <th scope="col">Quantity</th>
28                </tr>
29            </thead>
30            <tbody>
31                {% for food in food_items %}
32                <tr>
33                    <td>{{ food.name }}</td>
34                    <td>{{ food.calorie }}</td>
35                    <td>{{ food.quantity }}</td>
36                </tr>
37                {% endfor %}
38            </tbody>
39        </table>
40    </div>
41
42 {% endblock content %}
```

Profile module:

```
1 {% extends 'base.html' %}
2
3 {% block content %}
4 <div class="container-fluid">
5   <h1 class="headline">Your Profile </h1>
6
7   <div class="row mt-4 mb-4">
8     <div class="col-lg-5 card card-body">
9       <div class="app-title">
10
11         <h1 class="text-center profile-text mt-2">Name: {{ request.user }} </h1>
12
13       </div>
14
15       <form method="POST" action="" class="login-form pt-4">
16         {% csrf_token %}
17         {% for field in form %}
18           <div>Calorie Goal for Today</div>
19           {{ field }}
20           {% endfor %}
21           <input class="btn login_btn profile-submit ml-3" type="submit" value="submit">
22         </form>
23       </div>
24
25   <div class="col-lg-7">
26     <h1 class="text-center headline pb-2">Records From Past Week</h1>
27     <table class="table text-center">
28       <thead class="thead-dark">
29         <tr>
30           <th scope="col">Date</th>
31           <th scope="col">Calorie Consumed</th>
32           <th scope="col">Calorie Goal</th>
33         </tr>
34       </thead>
35       <tbody>
36         {% for record in records %}
37         <tr>
38           <td>{{ record.date }}</td>
39           <td>{{ record.total_calorie }}</td>
40           <td>{{ record.calorie_goal }}</td>
41         </tr>
42         {% endfor %}
43       </tbody>
44     </table>
45   </div>
46 </div>
47
48 </div>
49
50 <h1 class="text-center headline">All Food Items</h1>
51
52 <div class="row mt-5">
53   <table class="table text-center">
54     <thead class="thead-dark">
55       <tr>
56         <th scope="col">Food Name</th>
57         <th scope="col">Calories</th>
58         <th scope="col">Quantity</th>
59         <th scope="col">Update</th>
60         <th scope="col">Delete</th>
61       </tr>
62     </thead>
63     <tbody>
64       {% for food in food_items %}
65       <tr>
66         <td>{{ food.name }}</td>
67         <td>{{ food.calorie }}</td>
68         <td>{{ food.quantity }}</td>
69         <td><a class="btn btn-sm btn-info" href="{% url 'update_food' food.id %}">Update</a></td>
70         <td><a class="btn btn-sm" href="{% url 'delete_food' food.id %}">Delete</a></td>
71       </tr>
72       {% endfor %}
73     </tbody>
74   </table>
75 </div>
76
77 </div>
78
79 </div>
80 {% endblock content %}
```


Layouts

Login layout



Sign up layout:

Calorie App

127.0.0.1:8000/register/

CALORIE COUNTER

Home Profile Add Food Select Food

Login

Username..

Email..

Enter password...

Re-enter Password...

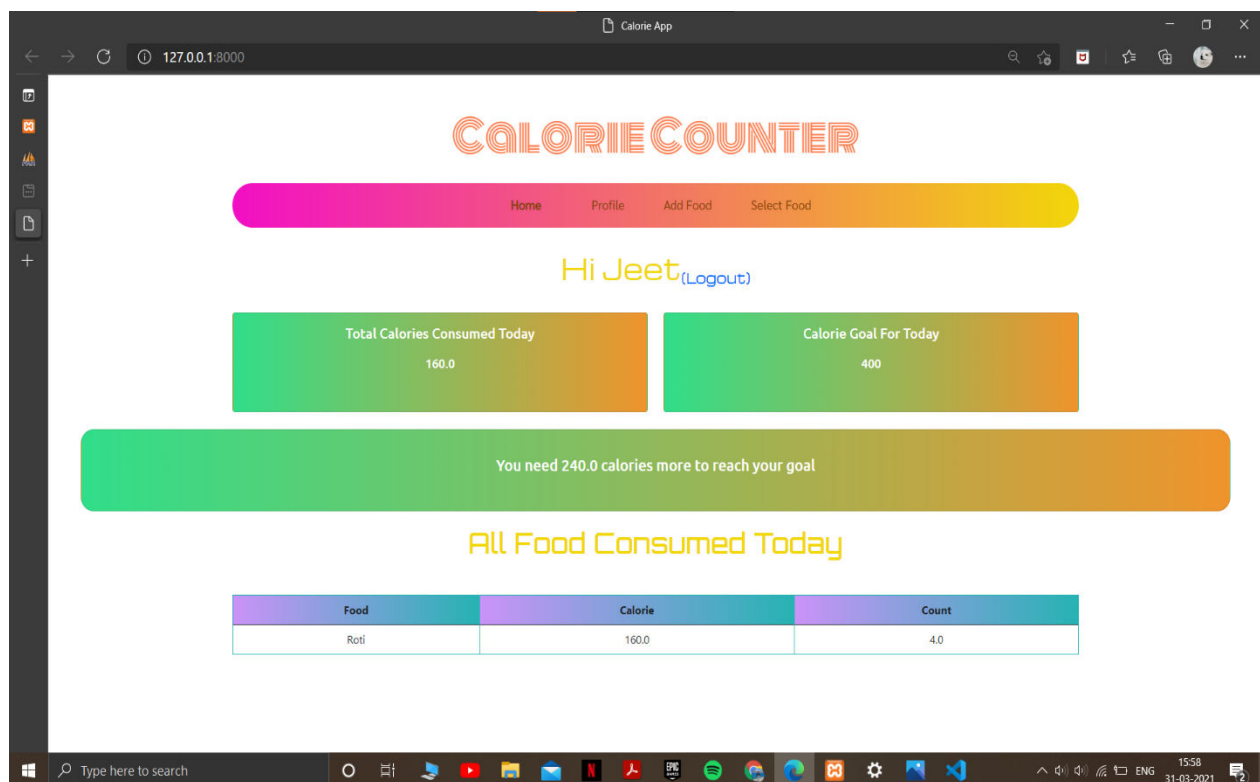
Submit

Already have an account? [Login](#)

Type here to search

10:27 31-03-2021

Home layout:



Add food module:

Calorie App

127.0.0.1:8000/add_food/

Home

Profile

Add Food

Select Food

Calorie Counter

Select Food

Name

Quantity

0

Calorie

0

select

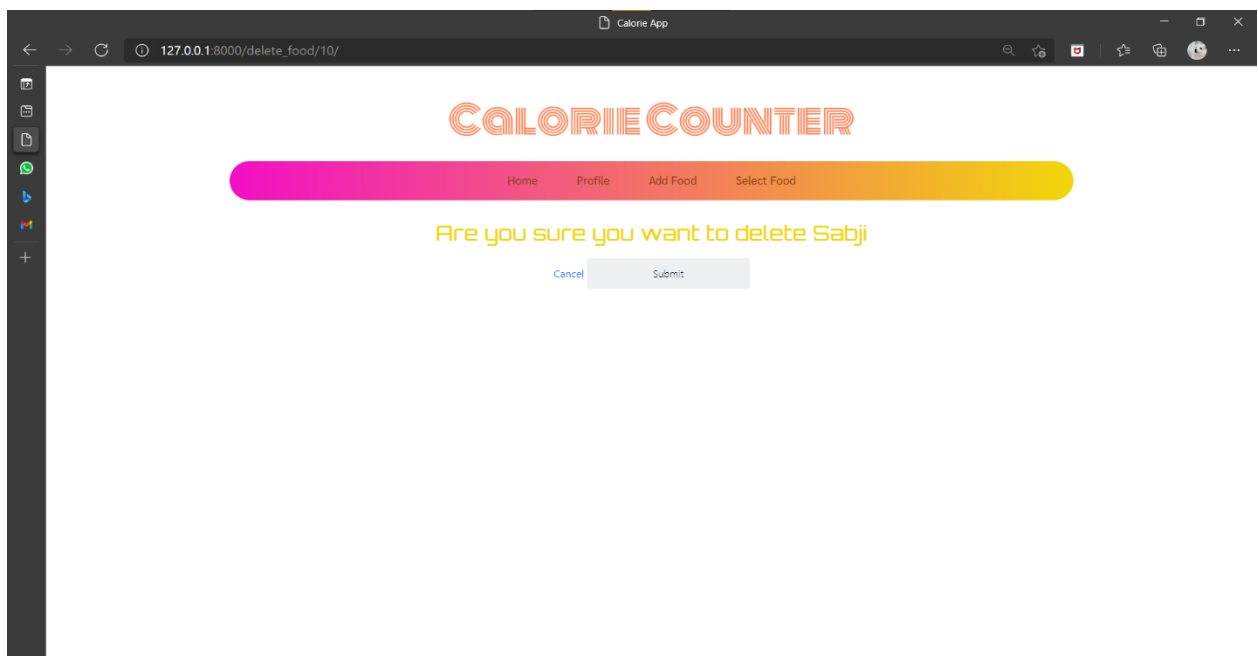
search food items:

Search

All Food Items

Food Name	Calories	Quantity
Sabji	100.0	1
Roti	40.0	1

Delete food:



Select food module:

Calorie App

127.0.0.1:8000/select_food/

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CALORIE COUNTER

Home Profile Add Food **Select Food**

Select Food

Food selected:

Quantity:

All Food Items

Food Name	Calories	Quantity
Sabji	100.0	1
Roti	40.0	1

Profile page layout:

The screenshot shows a web browser window titled "Calorie App" with the address bar displaying "127.0.0.1:8000/profile/". The page features a sidebar with navigation icons and a main content area. The main content area has a header "CALORIE COUNTER" and a navigation bar with links: Home, Profile, Add Food, and Select Food. The "Profile" link is active. Below the navigation bar, the section "Your Profile :" contains a green box with the text "Name: Jeet" and "Calorie Goal For Today" with a value of 400 and a "select" button. To the right, the section "Records From Past Week" has a table with columns: Date, Calorie Consumed, and Calorie Goal. Below this, the section "All Food Items" has a table with columns: Food Name, Calories, Quantity, Update, and Delete. The table lists two items: Sabji and Roti.

127.0.0.1:8000/profile/

CALORIE COUNTER

Home Profile Add Food Select Food

Your Profile :

Name: Jeet

Calorie Goal For Today

400 select

Records From Past Week

Date	Calorie Consumed	Calorie Goal
------	------------------	--------------

All Food Items

Food Name	Calories	Quantity	Update	Delete
Sabji	100.0	1	Update	Delete
Roti	40.0	1	Update	Delete

127.0.0.1:8000

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/>

