Nutrition Assistant Application

DOMAIN: CLOUD APP DEVELOPMENT

TEAM ID: PNT2022TMID53109

BATCH: B7-1A3E

TEAM MEMBERS:

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CONTENTS

1. INTRODUCTION

a. Project Overview

Due to the ignorance of healthy food habits, obesity rates are increasing at an alarming speed, and this is reflective of the risks to people's health. People need to control their daily calorie intake by eating healthier foods, which is the most basic method to avoid obesity. However, although food packaging comes with nutrition (and calorie) labels, it's still not very convenient for people to refer to App-based nutrient dashboard systems which can analyze real-time images of a meal and analyze it for nutritional content which can be very handy and improves the dietary habits, and therefore, helps in maintaining a healthy lifestyle.

This project aims at building a web App that automatically estimates food attributes such as ingredients and nutritional value by classifying the input image of food. Our method employs Clarifai's AI-Driven Food Detection Model for accurate food identification and Food API's to give the nutritional value of the identified food.

b. Purpose

One of the most basic functions of such an app is to guide its users towards a healthy diet and assist them to achieve their health goals. So, once your user specifies the goal like desired weight goal, body type, food habits, and preferred food items, your app must suggest them with a proper diet accordingly.

2. LITERATURE SURVEY

a. Existing problem

Due to the improvement in people's standards of living, obesity rates are increasing at an alarming speed, and this is reflective to the risks in people's health. People need to control their daily calorie intake by eating healthier foods, which is the most basic method to avoid obesity.

- However, although food packaging comes with nutrition (and calorie) labels, it's still not very convenient for people to refer.
- App-based nutrient dashboard systems which can analyze real time images of meal and analyze it for nutritional content can be very handy and improve the dietary habit

b. References

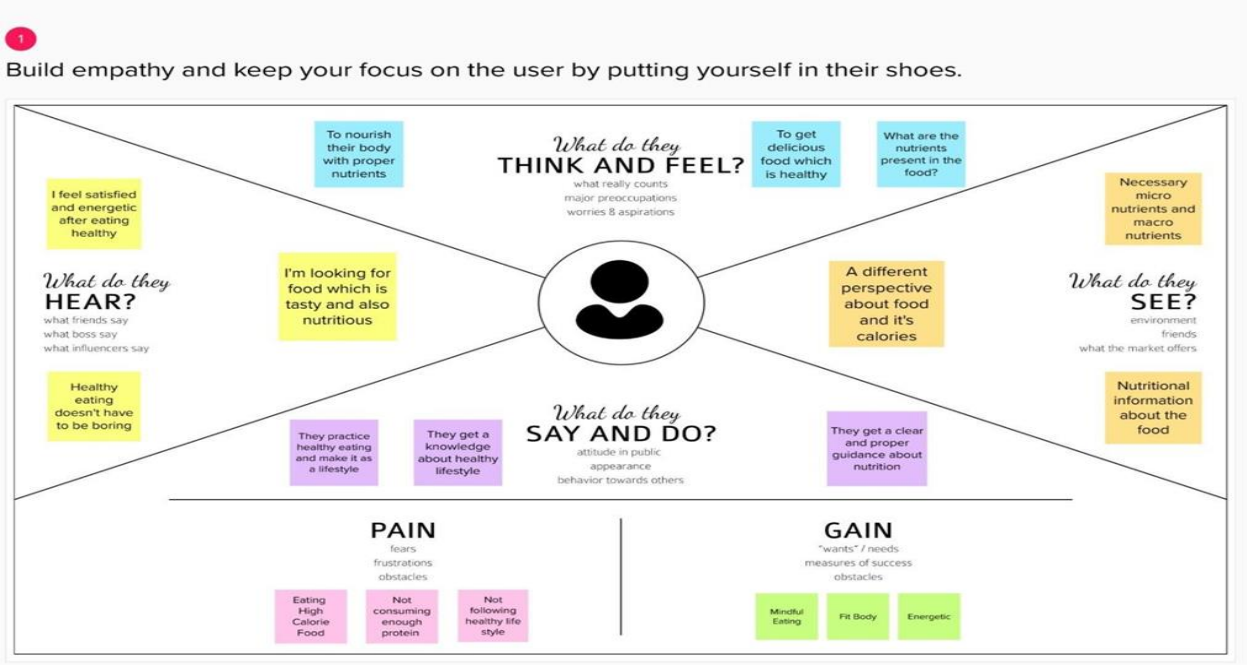
https://www.researchgate.net/publication/348459867_Dietitian_assistant_opportunities_within_the_nutrition_care_process_for_patients_with_or_at_risk_of_malnutrition_a_systematic_review

C. Problem Statement Definition

Due to the ignorance of healthy food habits, obesity rates are increasing at an alarming speed, and this is reflective of the risks to people's health. People need to control their daily calorie intake by eating healthier foods, which is the most basic method to avoid obesity. We know that in all food packets there is a label with its ingredients with its ratio and their calorie values. This is not much clear to make sense about our healthy diet calorie. This food detection model is introduced to understand about the calorie and nutrition value of a food that we are taking in our diet.
The initial step in this food detection model is to load a food image in a web. The image is passed to the server application, which uses Clarifai's AI-Driven Food Detection Model Service to analyze the images and Nutrition API to provide nutritional information about the analyzed Image which is stored in the database. The nutritional information of the analyzed image is displayed in the page. This is helpful in identifying the exact information regarding the nutrition values.

3. IDEATION & PROPOSEDSOLUTION

a. Empathy Map Canvas



b. **Ideation & Brainstorming**

c. Proposed Solution

Problem Statement

Many people are affected by anxiety and health issues. Unhealthy food Habits might increase cholesterol and lead to even heart attack. Due to the ignorance Of healthy food habits, obesity rates are

increasing at an alarming speed. So, the Affected people should maintain the food calory value and diet plan to shift to a Healthy life style.

Idea Solution/Description

In this web application user will be able to know about the nutrition value of the Food.

- User have to take the picture of the food to know its nutritional value.
- Upload the picture in the web page.
- Then the user can view the nutritional value of the food picture in the result Page.

Novelty/Uniqueness

We will deliver a diet chart for individual based on their BMI (Body Mass Index), which is calculated at the BMI check point.

Social Impact/ Customer Satisfaction

Those who visit our site and properly follow their diet chart designed for them Will be able to easily overcome the obesity and make their body good and healthy .Because our site's information is authentic and a trusted one.

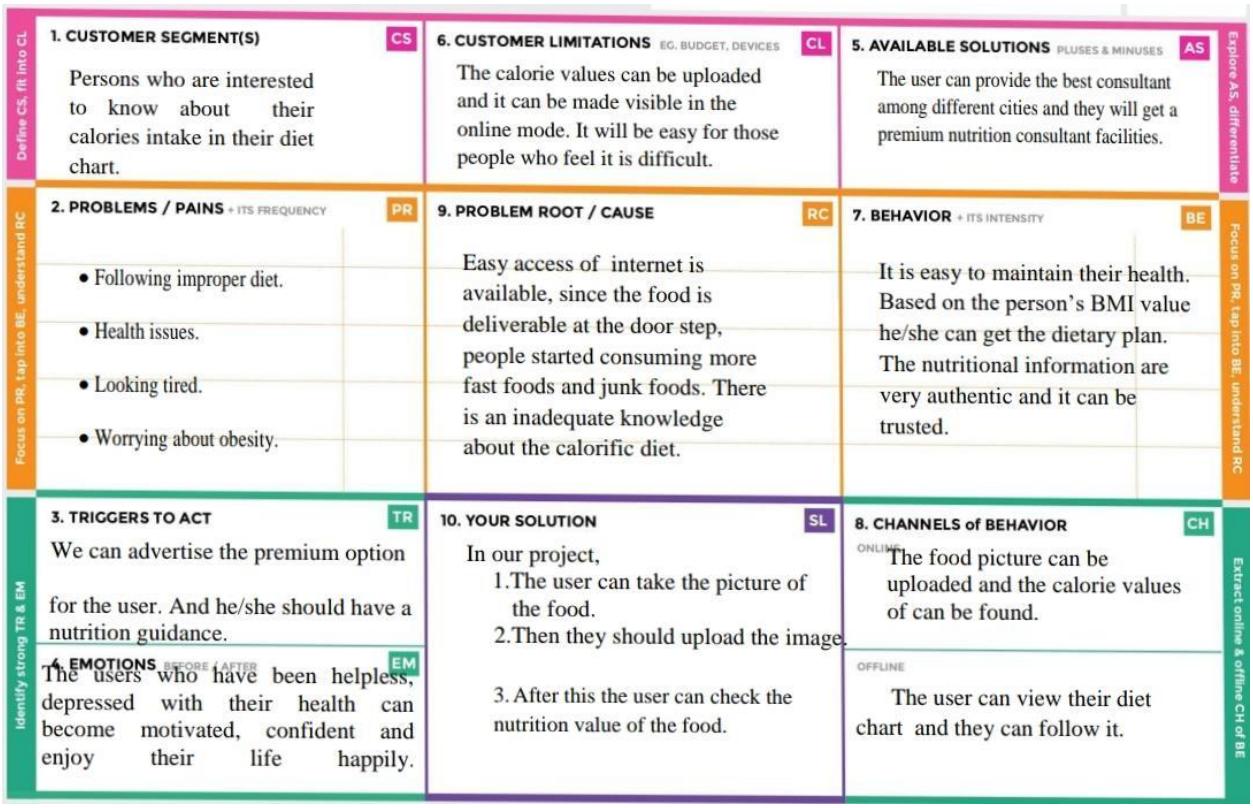
Business Model

We will advertise a premium option for the user. In premium, the user can Unlock a nutrition consultant page and they will get the consultant session with their Individual consultant where the user is allotted to one of the best consultants among the cities.

Scalability of Solution

Our solution that we provide is based on web application using client And server model. So, here the solution scalability is about how long the server runs And how long it takes for the client to get a response.

4. Problem Solution fit:



5.REQUIREMENT ANALYSIS

a. Functional Requirements

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story/ Sub-Task)
FR-1	User Registration	Registration through Form

FR-2	User Confirmation	Confirmation via Email
FR-3	Search for donor	Search result can be viewed in a list. Each element in the list represents a specific donorwith the donordetails.
FR-4	Administrator	Monitor the overall functionalities of theapplication and ensure quality of service
FR-5	Send Request	If plasma is required, the requester places a requestto the admin.
FR-6	User Credentials	Administrator has registered then the software administrator should be able to login to the web application. The login information will be stored on the database for future use.

b. Non-Functional Requirements

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description

NFR-1	Usability	Plasma donor Application is very usefulto the emergency situation patient, becausethat application givesthe information of the nearbyplasma donors and request to donate theirplasmato patientvia email, SMS etc.
NFR-2	Security	Secured website and application that provides varioussecurity features EmailVerification, password login etc.
NFR-3	Reliability	The plasma donorapplication should workproperly,even when faults occur.

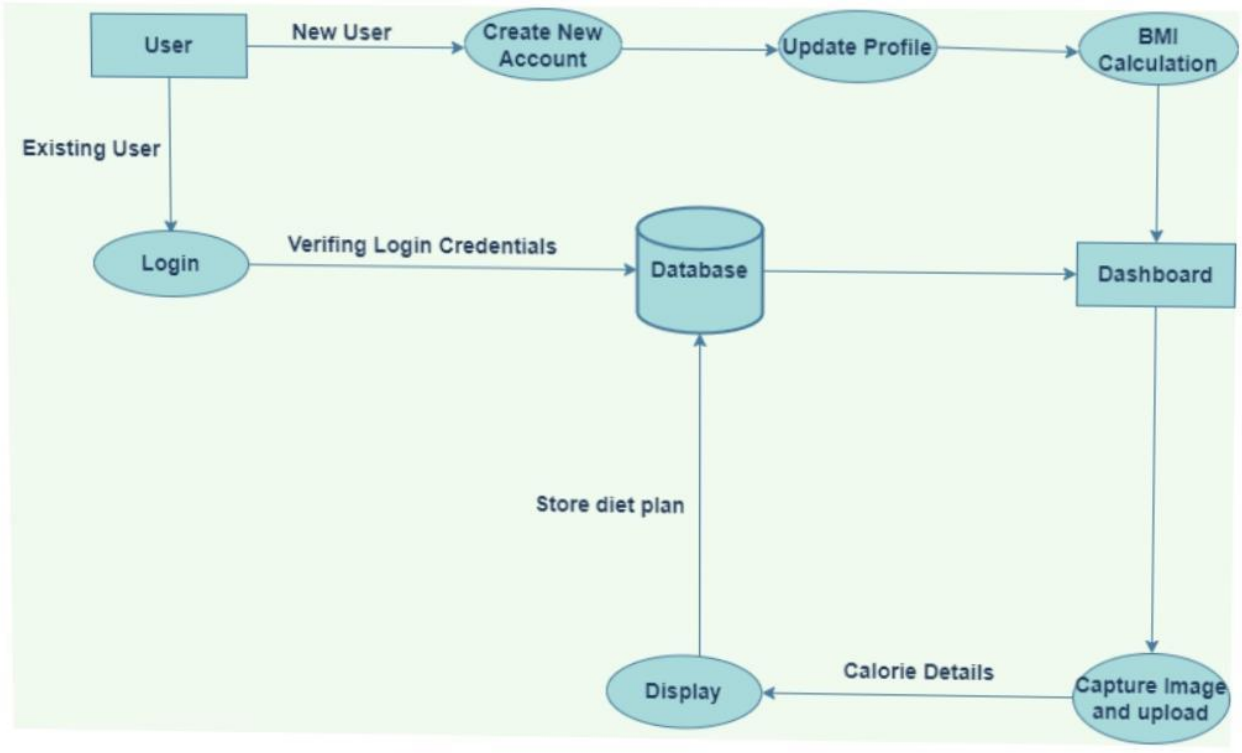
NFR-4	Performance	The plasma donor application must perform well in different scenarios. The LoadTime should be lessand there needs to be quick response to the request saying thatdelay is less.

NFR-5	Availability	The system shouldbe available all times, meaning the user can access it using application. In case if a hardware failure or database corruption ,a replacement page will be shown. Also, in case of a hardware failure or database corruption, backups ofthe database should be retrieved from the application data folder and saved by the administrator. Must be available 24/7.

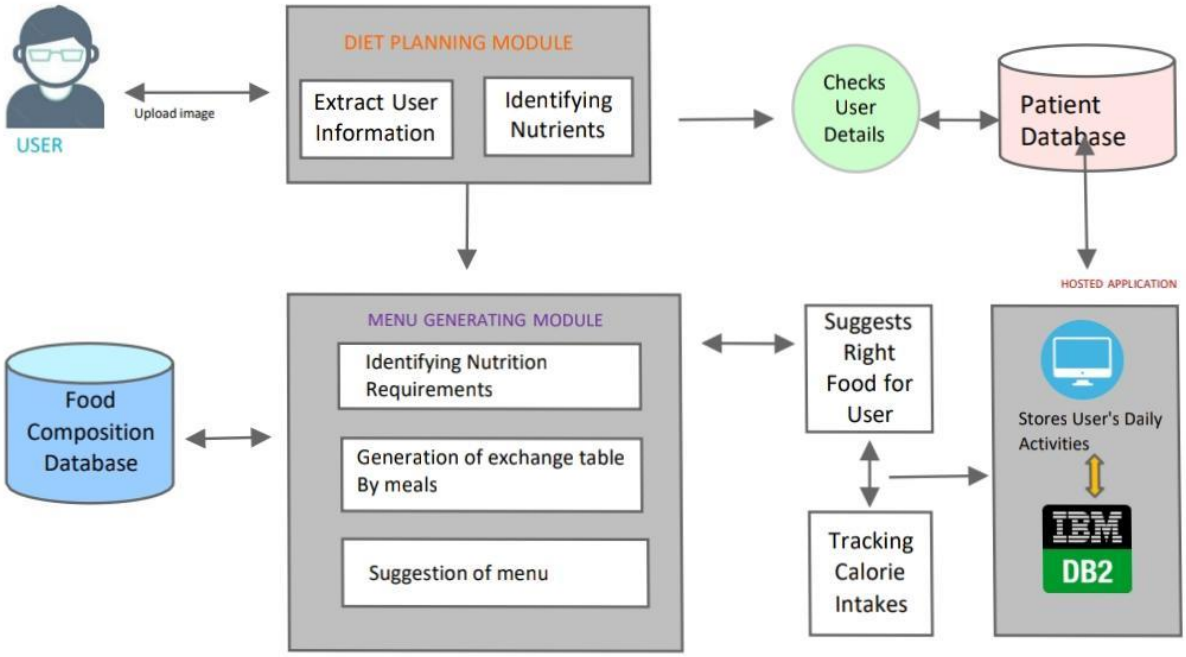
NFR-6	Scalability	In the application to handle an increase in workload withoutperformance degradation, or its abilityto quickly enlarge. The solution must allow the hardware end of the deployed software services and components to be scaledhorizontally as well as vertically.

5.Project Design :

5.1 Data Flow Diagram:



5.2 Solution and technical Architecture:



6.Project Planning and Scheduling :

6.1 Sprint Planning and Estimation :

6.2 Sprint Delivery Schedule:

Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	In the app, I can register for the application by entering my email or username, password, and confirming the password.	10	High	Ranjani A Pooja M
Sprint-1	New User	USN-2	As a new user, I will have to register for the application by entering the basic details provided in the application.	10	High	Ranjani A Pooja M
Sprint-2	Biometrics Details	USN-3	As a user, I have enter the biometrics details that are asked in the application	10	High	Sanjana A Varsha S
Sprint-2		USN-4	As a User, I can make some recommendations such as weight loss needs, food control, nutritive plan etc.	10	High	Sanjana A Varsha S
Sprint-3	Image Recognition	USN-5	As a user, I have to upload the image of the food items to find out the calories and also to get suggestions of whether it is healthy for my diet plan.	10	High	Ranjani A Pooja M
Sprint-3		USN-6	The details will be provided via the Nutrition API that are stored in the IBM DB2.	10	High	Ranjani A Pooja M
Sprint-4	Nutrition Plan	USN-7	The other health related nutrition plans also provided for the convenience of user-friendly.	20	High	Sanjana A Varsha S
Sprint-3	Identification of Food	USN-8	As a User, I have entered the name of some foods because the vegetables are available in the	10	High	Ranjani A Pooja M

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
			same color and size but will have different names and taste.			

Project Tracker, Velocity & Burndown Chart:

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	8 Days	27 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	8 Days	01 Nov 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	30	8 Days	07 Nov 2022	12 Nov 2022	30	12 Nov 2022
Sprint-4	20	8 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

Velocity:

Let's calculate the team's average velocity (AV) per iteration unit (story points per day).

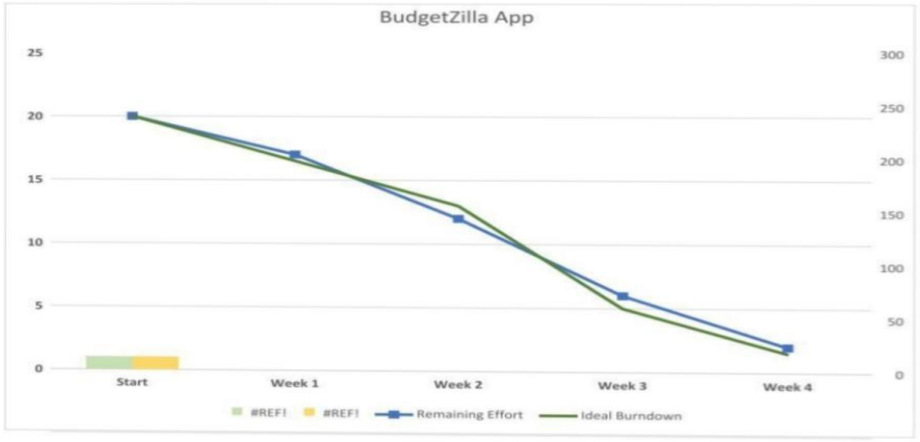
$$AV = \text{Velocity}/\text{Sprint Duration}$$
$$= 20/8$$
$$= 2.5$$

$$AV = \text{Velocity}/\text{Sprint Duration}$$
$$= 30/8$$
$$= 3.75$$

Burndown Chart:

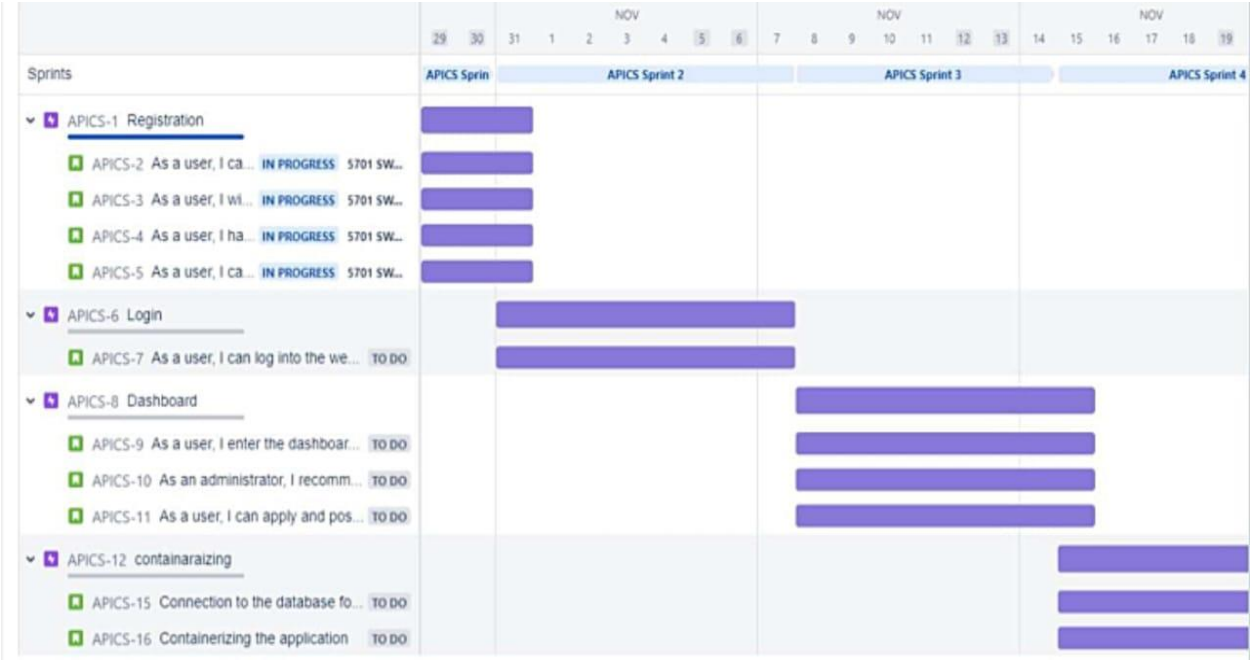
X-axis - Day

Y-axis - Story Points



6.3 Report From JIRA :

7.Coding and Solutioning:



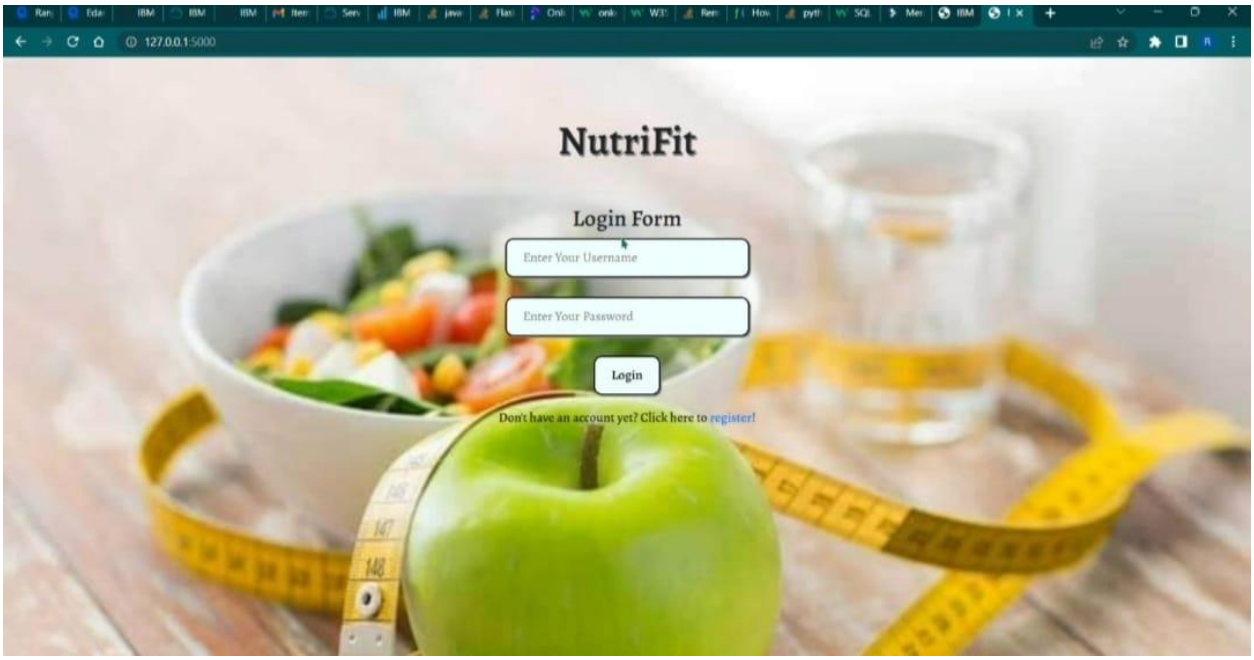
7.1 Feature 1 :

- **Login/signup**

```
<!DOCTYPE html>
<html lang="en">
<head></br></br></br>
    <h1 style="font-size: 50px; text-shadow: 2px 2px grey; font-
weight: bold; font-family: 'Alegreya', serif
!important;"><center>NutriFit</center></h1>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Nutrtion Assistant Application</title>
        <!-- favicon -->
        <!-- <link rel="shortcut icon" href="/assets/img/favicon.ico"
type="image/x-icon"> -->
        <!-- <link rel="icon" href="/assets/img/favicon.ico"
type="image/x-icon"> -->
        <link rel="icon" type="image/png" sizes="16x16"
href="/assets/img/favicon-32x32.png">
        <!-- bootstrap css cdn -->
        <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/boots
trap.min.css" integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+
VmmDGMN5t9UJ0Z" crossorigin="anonymous">
        <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
        <!-- css stylesheet -->
        <link rel="stylesheet" href="../static/style.css">
        <!-- font styles cdn -->
        <link rel="preconnect" href="https://fonts.gstatic.com">
        <link
href="https://fonts.googleapis.com/css2?family=Alegreya&display
=swap" rel="stylesheet">
```

```
        <link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@6
00&display=swap" rel="stylesheet">
        <style>
            body {
              background-image:
url('https://images.jdmagicbox.com/comp/bangalore/h3/080pxx80.
xx80.111217105334.y7h3/catalogue/swastha-nutrition-and-diet-
counseling-jp-nagar-3rd-phase-bangalore-dietitians-
lfbo8fib6y.jpg');
              background-repeat: no-repeat;
              background-attachment: fixed;
              background-size: cover;
            }
            #button
            {
               background-color:azure;
               padding: 10px 20px;
               border: 2px solid black;
               box-shadow: 2px 2px grey;
               color:black;
               font-weight: bold;
            }
            input{
               background-color:azure;
               width:300px;
               border: 2px solid black;
               box-shadow: 2px 2px grey;
               border-radius: 10px;
            }
            h3{
               font-weight: bold;
            }
            p{
               font-weight: bold;
```

```
        }
        </style>
    </head>
<body>

     <!-- navbar ends -->
    <!-- Login form -->

    <div class="login text-center mt-5">
        <h3> Login Form </h3>
        <form action="/" method="post">
        <div class="msg">{{ msg }}</div>
            <input type="text" name="username" placeholder="Enter
Your Username"  id="username" required></br></br>
                        <input type="password" name="password"
placeholder="Enter Your Password" id="password"
required></br></br>
        <button type="submit" id="button" class="btn btn-primary">
Login </button>
        </form>
    </div>

    <div class="note mt-3 text-center"> <!--Register form -->
    <p> Don't have an account yet? Click here to <a
href="register">register! </a> </p>
    </div>
</body>
</html>
```



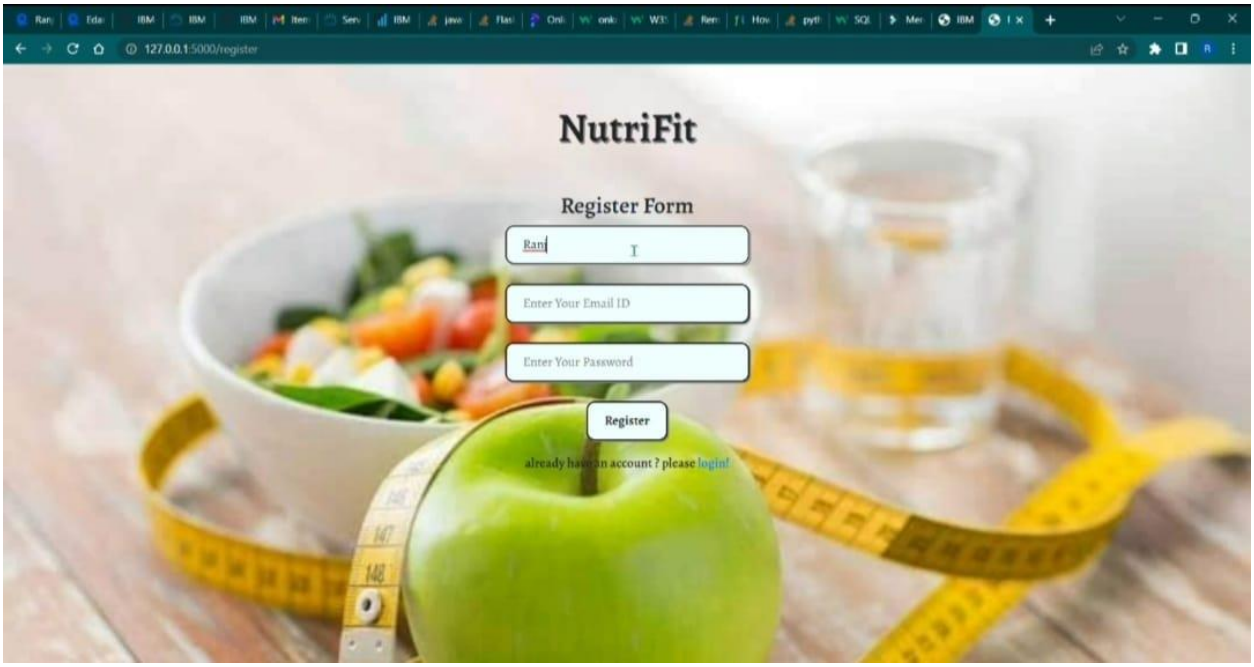
Sign up

```
<!DOCTYPE html>
<html lang="en">
<head></br></br>
    <h1 style="font-size: 50px; text-shadow: 2px 2px grey; font-weight: bold; font-family: 'Alegreya', serif !important;"><center>NutriFit</center></h1>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Nutrtion Assistant Application</title>
        <!-- favicon -->
        <!-- <link rel="shortcut icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
        <!-- <link rel="icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
        <link rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-32x32.png">
        <!-- bootstrap css cdn -->
```

```
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/boots
trap.min.css" integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+
VmmDGMN5t9UJ0Z" crossorigin="anonymous">
    <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
    <!-- css stylesheet -->
    <link rel="stylesheet" href="../static/style.css">
    <!-- font styles cdn -->
    <link rel="preconnect" href="https://fonts.gstatic.com">
    <link
href="https://fonts.googleapis.com/css2?family=Alegreya&display
=swap" rel="stylesheet">
    <link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@6
00&display=swap" rel="stylesheet">
    <style>
      body {
        background-image:
url('https://images.jdmagicbox.com/comp/bangalore/h3/080pxx80.
xx80.111217105334.y7h3/catalogue/swastha-nutrition-and-diet-
counseling-jp-nagar-3rd-phase-bangalore-dietitians-
lfbo8fib6y.jpg');
        background-repeat: no-repeat;
        background-attachment: fixed;
        background-size: cover;
      }
      #button
      {
        background-color:azure;
        padding: 10px 20px;
        border: 2px solid black;
        box-shadow: 2px 2px grey;
```

```
            color:black;
            font-weight: bold;
        }
        input{
            background-color:azure;
            width:300px;
            border: 2px solid black;
            box-shadow: 2px 2px grey;
            border-radius: 10px;
        }
        h3{
            font-weight: bold;
        }
        p{
            font-weight: bold;
        }
        </style>
    </head>
<body>

     <!-- navbar ends -->
    <!-- Login form -->
    <div class="login text-center mt-5">
        <h3> Register Form </h3>
        <form action="/register" method="post">
        <div class="msg">{{ msg }}</div>
            <!-- <input type="text" placeholder="fullname"
id="fullname"> </br></br> -->

            <input type="text" name="username" placeholder="Enter
Your Username"  id="username" required></br></br>
                        <input type="email" name="email"
placeholder="Enter Your Email ID"  id="email"
required></br></br>
```

```
                    <input type="password" name="password"
placeholder="Enter Your Password" id="password"
required></br></br>

        <button type="submit" id="button" class="btn btn-primary">
Register </button>
        </form>
    </div>

    <div class="note mt-3 text-center"> <!--Register form -->
    <p> already have an account ? please  <a href="/">login! </a>
</p>

    </div>
</body>
</html>
```



- **Personal information**

```
<html>
```

```
<head>
        <link rel="stylesheet" href="../static/personal.css">
    <style>
        body {
          background-image:
url('https://images.jdmagicbox.com/comp/bangalore/h3/080pxx80.xx80.
111217105334.y7h3/catalogue/swastha-nutrition-and-diet-counseling-
jp-nagar-3rd-phase-bangalore-dietitians-lfbo8fib6y.jpg');
          background-repeat: no-repeat;
          background-attachment: fixed;
          background-size: cover;
        }
        </style>
</head>
<style>
        #navbar button{

                        border: 3px solid grey;
                        background-image:linear-gradient(to right,rgb(250,
234, 154) ,lightgreen);
                        border-radius: 10px;
                        width: 250px;
                        padding: 5px;
                        margin-left: 15px;
                        margin-top: 20px;
                        margin-right: 15px;
                        cursor:pointer;
                        height: 50px;
                        font-weight: bold;
                        font-size: 20px;
                        box-shadow: 2px 2px grey;
                      }
        button:hover
        {
          color: black;
```

```
        }
        </style>
</head>
<body>
  <div class="main">
        <div id="navbar">
          <br>
          <nav>
                <a href="daily_update"><button  style="margin-left:
80px;"><span>Daily Update</span></button></a>
                <a href="uploadimage"><button><span>Upload
Image</span></button></a>
                <a
href="premium"><button><span>Premium</span></button></a>
                <a href="user_diet_info"><button ><span>Personal
Information</span></button></a>
                <a href="logout"><button ><span>Log
Out</span></button></a>

          </nav>
  </div>
<body>
        <div id="box1">

              <form action="none" method="post" name="bmiform">
                    <fieldset>
                    <legend>Height and Weight</legend>
                          <label for="pounds">Weight (pounds):</label>
                          <input type="text" name="pounds" id="pounds"
required>
                          <br>
                          <label for="inches">Height (inches):</label>
                          <input type="text" name="inches" id="inches"
required>
```

```
                    <br>
            <label for="age">Age (2-120):</label>
                    <input type="text" name="age" id="age"
required>
                    <br>
            <label for="gender">Gender:</label>
                    <input type="text" name="gender" id="gender"
required>
                    <br>

                    <button type="button" name="calculate"
value="Calculate your BMI" onclick="calcBMI()">Calculate
BMI</button>
                </fieldset>

                <fieldset>
                <legend>BMI</legend>
                    <label for="bmi" id="bmi_label">Your calculated
BMI is:</label>
                    <input type="text" name="bmi" id="bmi"
readonly="readonly">
                    <button type="button" id="btn1" name="chart"
value="chart display" onClick="myfun()">Display Chart</button>
                </fieldset>
            </form>
        </div>
            <!-- <div class="msg">{{ msg }}</div> -->


        <table id="myTable1" class="hidden">
            <tr>
                <th colspan="3" style="padding:25px;" id="weight-
info"></th>
            </tr>
            <tr style="font-size:20px; font-weight:bold;">
```

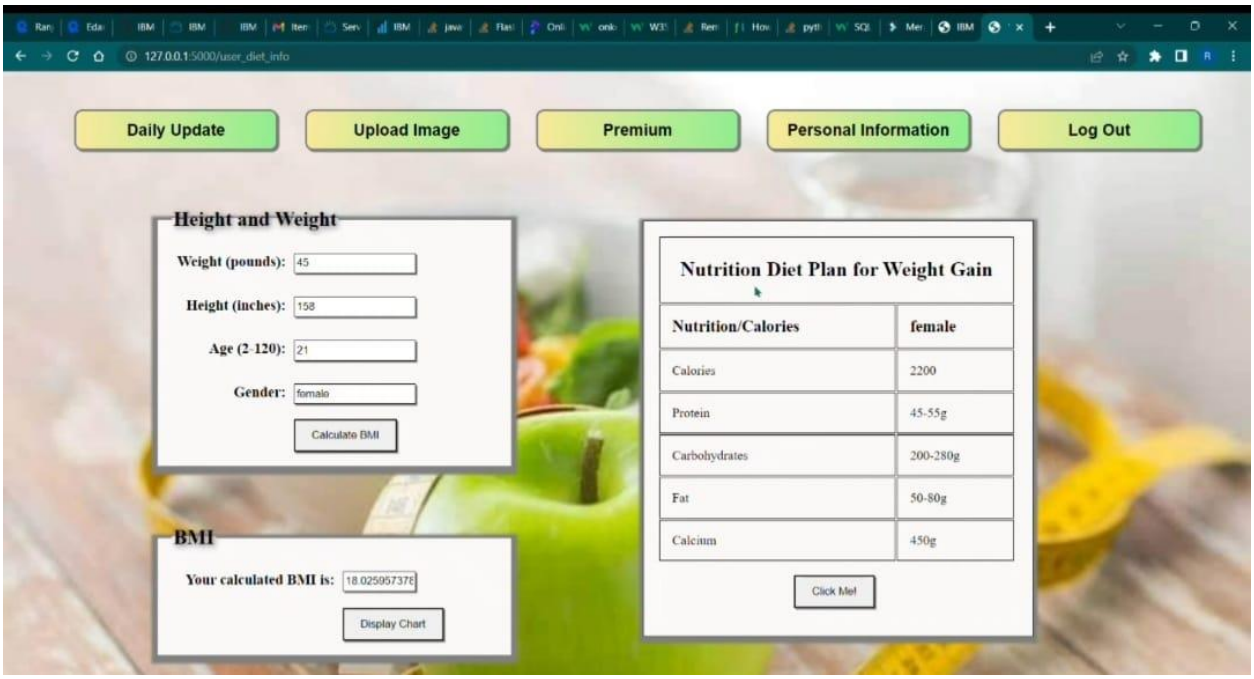
```
                    <td>Nutrition/Calories</td>
                    <td id="gender-info"></td>
                </tr>
      <tr">
      <td>Calories</td>
      <td id="calories"></td>
    </tr>
    <tr>
      <td>Protein</td>
      <td id="protein"></td>
    </tr>
    <tr>
      <td>Carbohydrates</td>
      <td id="carbohydrates"></td>
    </tr>
    <tr>
      <td>Fat</td>
      <td id="fat"></td>
    </tr>
    <tr>
      <td>Calcium</td>
      <td id="calcium"></td>
    </tr>
        <tr>


        <form action="/user_diet_info" method="post">
            <input type="hidden" id="protein1" name="protein1">
            <input type="hidden"  id="calories1" name="calories1">
            <input type="hidden"  id="carbohydrates1"
name="carbohydrates1">
            <input type="hidden" id="fat1" name="fat1">
            <input type="hidden" id="calcium1" name="calcium1">
```

```
            <td colspan="3" style="border-color: white;"><button
type="submit" onclick="alert('Successfully Updated !')">Click
Me!</button></td>

        </form>
</tr>
        </table>

      <script >
            function calcBMI() {
    var weight = document.bmiform.pounds.value, height =
document.bmiform.inches.value;
    document.bmiform.bmi.value = parseFloat((weight) / ((height/100) *
(height/100)));
  }

  function myfun()
  {
    bmi = document.getElementById("bmi").value;
    gender = document.getElementById("gender").value;
    document.getElementById("gender-info").innerText = gender;
    var dietplan ="";
    var calo = 0
    var pro = ""
    var carbo = ""
    var fat = ""
    var calci = ""

    if(gender == "male" || gender == "Male")
    {
       if(bmi < 18.5)
       {
          // document.getElementById("table1");
          // toggleTable1();
          // return false;
```

```
        dietplan = "Nutrition Diet Plan for Weight Gain"
        calo = 2800
        pro = "55-60g"
        carbo = "240-300g"
        fat = "40-100g"
        calci = "450g"

    }
    if(bmi > 18.5 && bmi < 22.9)
    {
        // document.getElementById("table2");
        // toggleTable2();
        // return false;
        dietplan = "Nutrition Diet Plan for Normal Weight"
        calo = 2400
        pro = "55g"
        carbo = "240-300g"
        fat = "40-80g"
        calci = "420g"
    }
    if(bmi > 22.9)
    {
        // document.getElementById("table3");
        // toggleTable3();
        // return false;
        dietplan = "Nutrition Diet Plan for Weight Loss"
        calo = 1800
        pro = "30-130g"
        carbo = "200-240g"
        fat = "30-70g"
        calci = "450mg"
    }
}
if(gender == "female" || gender == "Female")
{
```

```
if(bmi < 18.5)
{
   // document.getElementById("table4");
   // toggleTable4();
   // return false;
   dietplan = "Nutrition Diet Plan for Weight Gain"
   calo = 2200
   pro = "45-55g"
   carbo = "200-280g"
   fat = "50-80g"
   calci = "450g"
}
if(bmi > 18.5 && bmi < 22.9)
{
   // document.getElementById("table5");
   // toggleTable5();
   // return false;
   dietplan = "Nutrition Diet Plan for Normal Weight"
   calo = 2200
   pro = "45g"
   carbo = "200-280g"
   fat = "50-80g"
   calci = "420g"
}
if(bmi > 22.9)
{
   // document.getElementById("table6");
   // toggleTable6();
   // return false;
   dietplan = "Nutrition Diet Plan for Weight Loss"
   calo = 1500
   pro = "60-120g"
   carbo = "180-220g"
   fat = "25-50g"
   calci = "450g"
```

```
        }
    }
    document.getElementById("myTable1").style.display ='block';
    document.getElementById('weight-info').innerText = dietplan;
    document.getElementById('calories').innerText = calo;
    document.getElementById('protein').innerText = pro;
    document.getElementById('carbohydrates').innerText = carbo;
    document.getElementById('fat').innerText = fat;
    document.getElementById('calcium').innerText = calci;

    document.getElementById('calories1').value  = calo;
    document.getElementById('protein1').value = pro;
    document.getElementById('carbohydrates1').value = carbo;
    document.getElementById('fat1').value = fat;
    document.getElementById('calcium1').value = calci;
    console.log(dietplan + "\n" +
document.getElementById('calcium1').value);
    // document.getElementById("myTable1").classList.toggle("hidden");
  }

  function toggleTable1() {
    document.getElementById("myTable1").classList.toggle("hidden");
  }

        </script>
</body>
</html>
```



7.2 Feature 2

- Daily update

```
<!DOCTYPE html>

<html lang=”en”>

  <head>

    <meta charset=”UTF-8” />

    <meta http-equiv=”X-UA-Compatible” content=”IE=edge” />

    <meta name=”viewport” content=”width=device-width, initial-scale=1.0” />

    <title>Nutrtion Assistant Application</title>

    <link rel=”preconnect” href=https://fonts.googleapis.com>
```

```
    <link rel=”preconnect” href=https://fonts.gstatic.com
crossorigin>

    <link
href=https://fonts.googleapis.com/css2?family=Montserrat:ital,wg
ht@0,100;0,200;0,300;0,400;0,500;0,600;0,700;0,800;1,400;1,600
&display=swap rel=”stylesheet”>

    <link rel=”stylesheet” href=”../static/stylesheet.css”/>




  </head>

  <style>

    #navbar button{



            Border: 3px solid grey;

            Background-image:linear-gradient(to right,rgb(250, 234,
154) ,lightgreen);

            Border-radius: 10px;

            Width: 250px;

            Padding: 5px;

            Margin-left: 15px;
```

```
        Margin-top: 20px;
        Margin-right: 15px;
        Cursor:pointer;
        Height: 50px;
        Font-weight: bold;
        Font-size: 20px;
        Box-shadow: 2px 2px grey;
      }
Button:hover
{
  Color: #fff;


}
Table
   {
      Margin-top: 70px;
      Margin-left:400px;
      Border: 3px solid grey;
```

```
    Box-shadow: 0px 3px 3px 5px  grey;
    Padding: 17px;
    Width: 700px;
    Background-color:rgb(252, 249, 249);
}

Td{
    Padding:20px;

}

Table, th, td {
    Border: 1px solid black;

}

Th{
```

```
            Font-size: 15px;

            Font-weight: bold;

        }

    </style>

</head>

<body>

  <div class=”main”>

    <div id=”navbar”>

      <br>

      <nav>

          <a href=”daily_update”><button  style=”margin-left:
80px;”><span>Daily Update</span></button></a>

          <a href=”uploadimage”><button><span>Upload
Image</span></button></a>

          <a
href=”premium”><button><span>Premium</span></button></a>

          <a href=”user_diet_info”><button ><span>Personal
Information</span></button></a>

          <a href=”logout”><button ><span>Log
Out</span></button></a>
```

```
    </nav>
  </div>
  <br>
   <div class="main">
      <div id="continer">


         <div id="form-search">
            <FORM NAME="myform" action="/daily_update"
id="cointiner-inline" METHOD="post">
                  <INPUT TYPE="text" placeholder="Enter
Product" id="product-name" NAME="product-name"
VALUE="">
                   <INPUT TYPE="button" style="margin-left:
10px;margin-top:0px;width: 250px;" class="button"
NAME="button1" Value="Get Available Nutrients"
onClick="getNutrients()">
                  <br>
                 <input type="hidden" value=0 id="protein1"
name="protein1">
                 <input type="hidden" value=0 id="calories1"
name="calories1">
```

```
                <input type=”hidden” value=0 id=”carbohydrates1” name=”carbohydrates1”>

                <input type=”hidden” value=0 id=”fat1” name=”fat1”>

                <input type=”hidden” value=0 id=”calcium1” name=”calcium1”>

                <INPUT TYPE=”submit” style=”margin-left: -250px;margin-top:70px;width: 250px;” class=”button” NAME=”button1” Value=”Remaining Intake Nutrients”>

                  <br>

              </form>

              <div id=”cointiner-inline” style=”margin-top:-70px”>

              <input type=”file”  accept=”image/*” id=”imageInput” >

                  </div>

            </div>



          </div>

          <div class=”msg” id = “msg1”>

           <div class=”bcol”>
```

<table id=”mytable1”>

<!-- msg = [‘Calories’, str(calo) , ‘Proteins’, str(protein) + “ g”, ‘Carbohydrates’, str(carbo) + “ g”, ‘Fat’, str(fat) + “ g”, ‘Calcium’, str(calci) + “ g”]

→

<th>{{msg[2]}}</th>

<th>{{msg[3]}}</th>

</tr>

<tr>

<th>{{msg[0]}}</th>

<th>{{msg[1]}}</th>

</tr>

<tr>

<th>{{msg[4]}}</th>

<th>{{msg[5]}}</th>

</tr>

<tr>

<th>{{msg[6]}}</th>

```
        <th>{{msg[7]}}</th>
    </tr>

        <tr>
            <th>{{msg[8]}}</th>
            <th>{{msg[9]}}</th>
        </tr>
        </table>
  </div>

  </div>
<div class=”box2”>

    <div class=”bcol”>
        <table id=”mytable2” >
          <tr>
```

```
                    <th colspan=”2” style=”background-color:#ffffff
;margin-top: 25px;font-weight: bold;padding-left:
15px;”>Nutrition Facts</th>

                </tr>

                 <tr>

                    <th>Calories</th>

                    <th id=”calories”></th>

                  </tr>

                 <tr>

                    <th>Total Fat</th>

                    <th id=”totalfat”></th>

                </tr>

                <tr>

                    <th>Cholesterol</th>

                    <th id=”cholesterol”></th>

                </tr>

                <tr>

                    <th>Carbohydrates</th>

                    <th id=”carbohydrates”></th>
```

```
  </tr>
<tr>
    <th>Calcium</th>
    <th id=”calcium”></th>
</tr>
<tr>
    <th>Sodium</th>
    <th id=”sodium”></th>
</tr>
<tr>
    <th>Potassium</th>
    <th id=”potassium”></th>
</tr>
<tr>
    <th>Sugar</th>
    <th id=”sugar”></th>
  </tr>
```

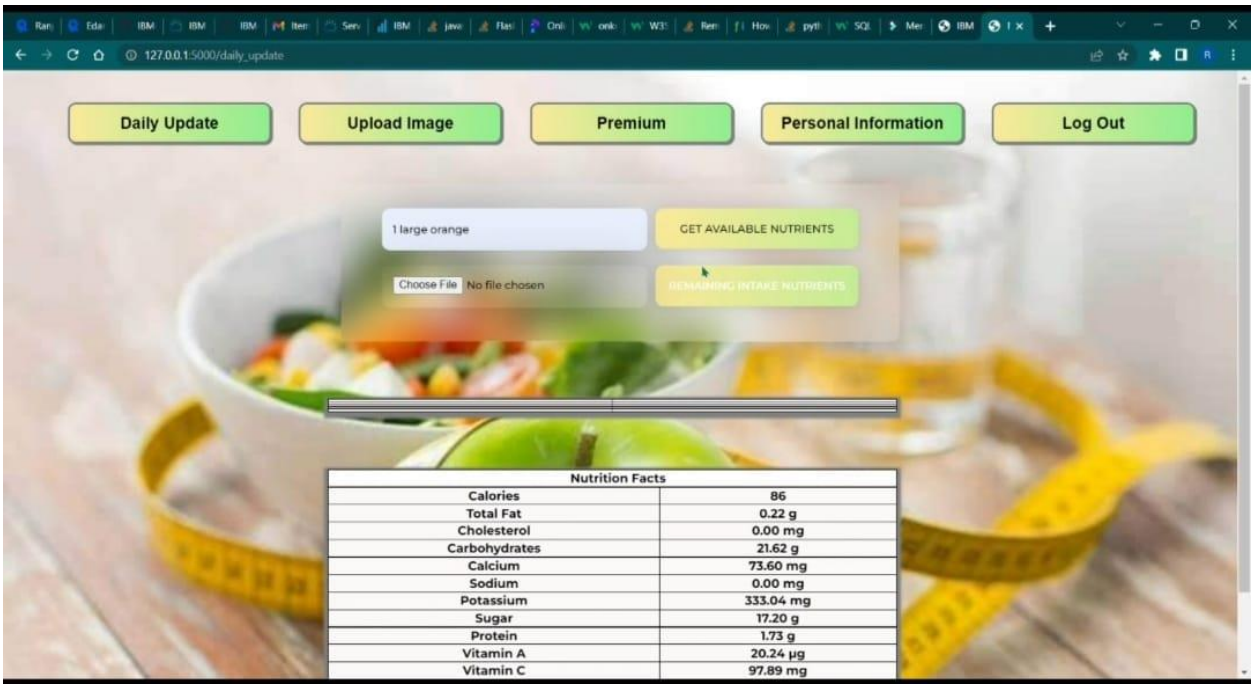
```
                    <tr>
                      <th>Protein</th>
                      <th id=”protein”></th>
                    </tr>

                    <tr>
                      <th>Vitamin A</th>
                      <th id=”vitaminA”></th>
                    </tr>
                    <tr>
                      <th>Vitamin C</th>
                      <th id=”vitaminC”></th>
                    </tr>
                  </table>
                </div>
              </div>
            </div>
```

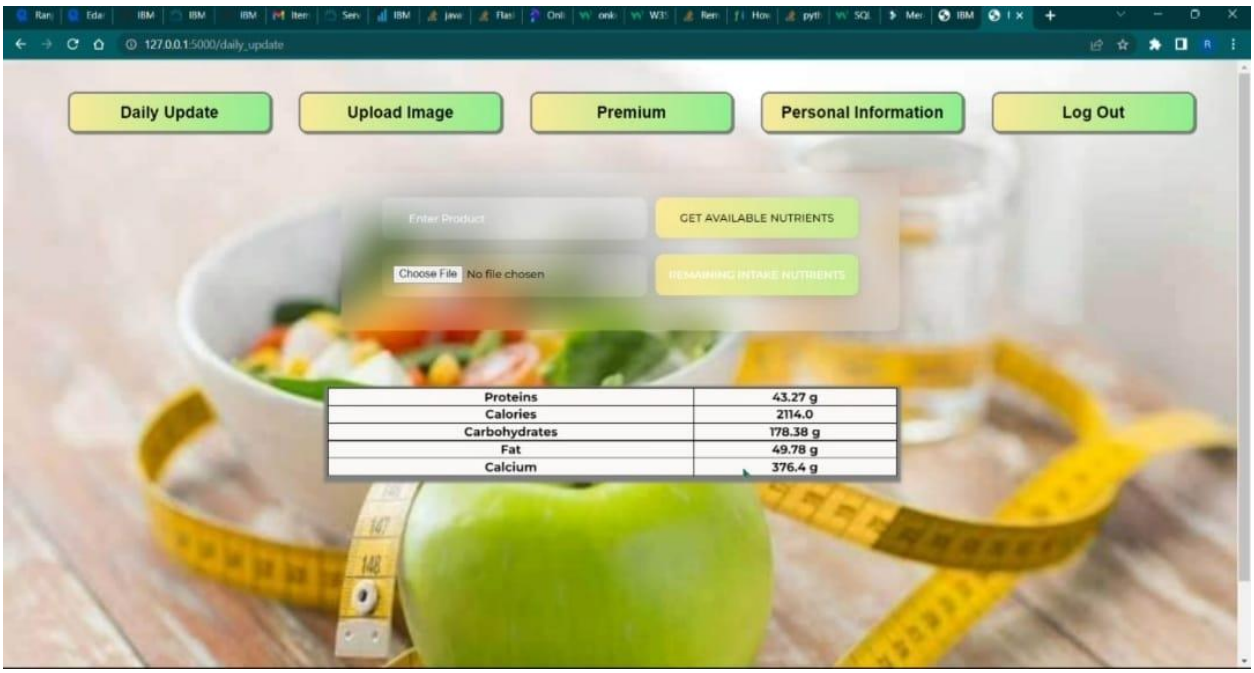
```
<script>

    Function getNutrients(){

        Const options = {

            Method: ‘GET’,

            Headers: {

           ‘X-RapidAPI-Key’: ‘e265f441b6mshb2c32e392137c4fp180d62jsnd464b9c5a77b’,

           ‘X-RapidAPI-Host’: ‘edamam-edamam-nutrition-analysis.p.rapidapi.com’

            }

    };

    Let data = document.getElementById(“product-name”).value

    Fetch(‘https://edamam-edamam-nutrition-analysis.p.rapidapi.com/api/nutrition-data?ingr=’ + data, options)

        .then(response => response.json())

        .then(response => {result = response;

    Console.log(result)

        Document.getElementById(“totalfat”).innerText = result.totalNutrients.FAT.quantity.toFixed(2) + “ “ + result.totalNutrients.FAT.unit;
```

```
Document.getElementById(“calories”).innerText =
result.calories;

Document.getElementById(“cholesterol”).innerText =
result.totalNutrients.CHOLE.quantity.toFixed(2) + “ “ +
result.totalNutrients.CHOLE.unit;

Document.getElementById(“calcium”).innerText =
result.totalNutrients.CA.quantity.toFixed(2) + “ “ +
result.totalNutrients.CA.unit;

Document.getElementById(“sodium”).innerText =
result.totalNutrients.NA.quantity.toFixed(2) + “ “ +
result.totalNutrients.NA.unit;

Document.getElementById(“potassium”).innerText =
result.totalNutrients.K.quantity.toFixed(2) + “ “ +
result.totalNutrients.K.unit;

Document.getElementById(“sugar”).innerText =
result.totalNutrients.SUGAR.quantity.toFixed(2) + “ “ +
result.totalNutrients.SUGAR.unit;

Document.getElementById(“protein”).innerText =
result.totalNutrients.PROCNT.quantity.toFixed(2) + “ “ +
result.totalNutrients.PROCNT.unit;

Document.getElementById(“carbohydrates”).innerText =
result.totalNutrients.CHOCDF.quantity.toFixed(2) + “ “ +
result.totalNutrients.CHOCDF.unit;

Document.getElementById(“vitaminA”).innerText =
result.totalNutrients.VITA_RAE.quantity.toFixed(2) + “ “ +
result.totalNutrients.VITA_RAE.unit;
```

```
        Document.getElementById("vitaminC").innerText =
result.totalNutrients.VITC.quantity.toFixed(2) + " " +
result.totalNutrients.VITC.unit;



        Document.getElementById('calories1').value  =
result.calories;

        Document.getElementById('protein1').value =
result.totalNutrients.PROCNT.quantity.toFixed(2)

        Document.getElementById('carbohydrates1').value =
result.totalNutrients.CHOCDF.quantity.toFixed(2)

        Document.getElementById('fat1').value =
result.totalNutrients.FAT.quantity.toFixed(2)

        Document.getElementById('calcium1').value =
result.totalNutrients.CA.quantity.toFixed(2)


Document.getElementsByClassName("box2")[0].style.display =
'block';

        Console.log(document.getElementById('fat1').value)

        })

         .catch(err => console.error(err));



    }
```

```
</script>

</body>

</html>
```





- **Premium features**

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-
scale=1.0" />
    <title>Nutrtion Assistant Application</title>
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com"
crossorigin>
    <link
href="https://fonts.googleapis.com/css2?family=Montserrat:ital,wght
@0,100;0,200;0,300;0,400;0,500;0,600;0,700;0,800;1,400;1,600&dis
play=swap" rel="stylesheet">
    <link rel="stylesheet" href="../static/stylesheet.css"/>
```

```
  </head>
  <style>
    #navbar button{

            border: 3px solid grey;
            background-image:linear-gradient(to right,rgb(250, 234,
154) ,lightgreen);
            border-radius: 10px;
            width: 250px;
            padding: 5px;
            margin-left: 15px;
            margin-top: 20px;
            margin-right: 15px;
            cursor:pointer;
            height: 50px;
            font-weight: bold;
            font-size: 20px;
            box-shadow: 2px 2px grey;
          }
    button:hover
    {
      color: #fff;

    }
    table
        {
            margin-top: 70px;
            margin-left:400px;
            border: 3px solid grey;
            box-shadow: 0px 3px 3px 5px  grey;
            padding: 17px;
            width: 700px;
            background-color:rgb(252, 249, 249);
```

```
        }

        td{
            padding:20px;

        }

        table, th, td {
            border: 1px solid black;

        }

        th{
            font-size: 15px;
            font-weight: bold;
        }
    </style>
</head>
<body>
  <div class="main">
    <div id="navbar">
      <br>
      <nav>
          <a href="daily_update"><button  style="margin-left:
80px;"><span>Daily Update</span></button></a>
          <a href="uploadimage"><button><span>Upload
Image</span></button></a>
          <a
href="premium"><button><span>Premium</span></button></a>
          <a href="user_diet_info"><button ><span>Personal
Information</span></button></a>
          <a href="logout"><button ><span>Log
Out</span></button></a>

      </nav>
```

```
  </div>
  <br>
    <div class="main">
       <div id="continer">

          <div id="form-search">
             <FORM NAME="myform" action="/daily_update"
id="cointiner-inline" METHOD="post">
                  <INPUT TYPE="text" placeholder="Enter Product"
id="product-name" NAME="product-name" VALUE="">
                   <INPUT TYPE="button" style="margin-left:
10px;margin-top:0px;width: 250px;" class="button"
NAME="button1" Value="Get Available Nutrients"
onClick="getNutrients()">
                   <br>
                  <input type="hidden" value=0 id="protein1"
name="protein1">
                  <input type="hidden" value=0 id="calories1"
name="calories1">
                  <input type="hidden" value=0 id="carbohydrates1"
name="carbohydrates1">
                  <input type="hidden" value=0 id="fat1" name="fat1">
                  <input type="hidden" value=0 id="calcium1"
name="calcium1">
                  <INPUT TYPE="submit" style="margin-left: -
250px;margin-top:70px;width: 250px;" class="button"
NAME="button1" Value="Remaining Intake Nutrients">
                   <br>
                </form>
                <div id="cointiner-inline" style="margin-top:-70px">
                <input type="file"  accept="image/*" id="imageInput" >
                </div>
             </div>

          </div>
```

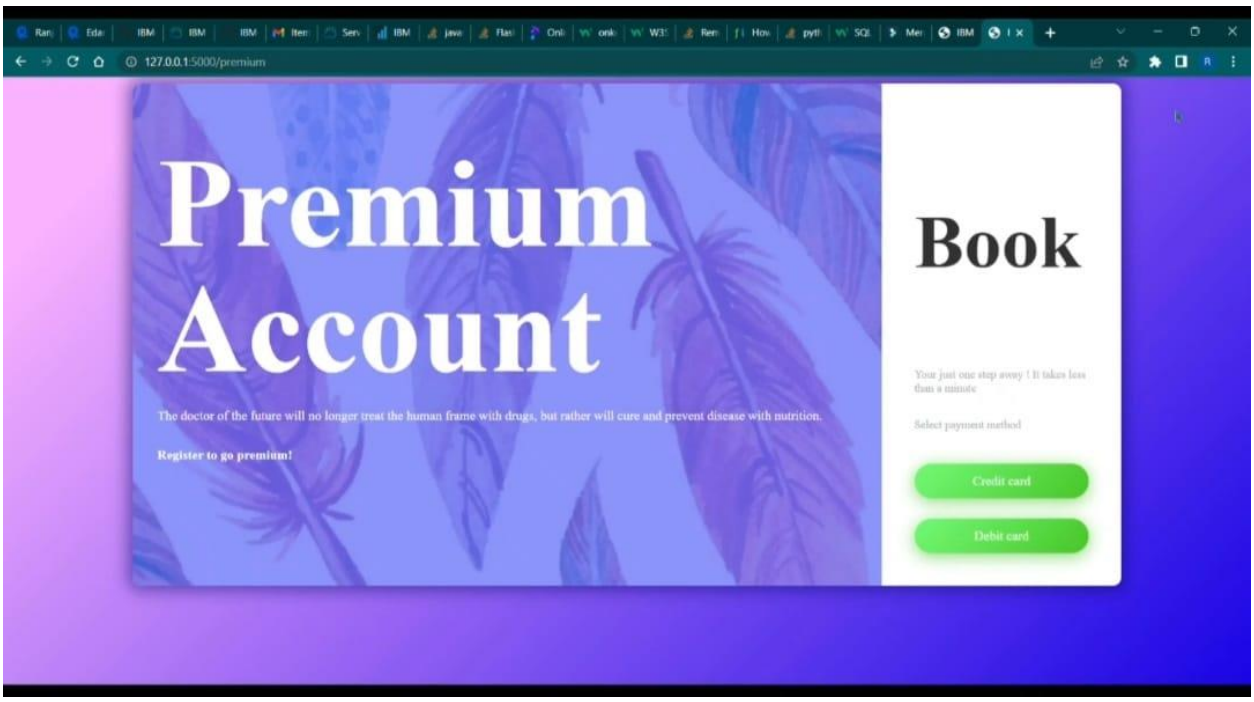
```
            <div class="msg" id = "msg1">
              <div class="bcol">
                <table id="mytable1">

                    <!--  msg = ['Calories', str(calo) , 'Proteins', str(protein) +
" g", 'Carbohydrates', str(carbo) + " g", 'Fat', str(fat) + " g", 'Calcium',
str(calci) + " g"]
 -->
                    <th>{{msg[2]}}</th>
                    <th>{{msg[3]}}</th>
                  </tr>
                  <tr>
                    <th>{{msg[0]}}</th>
                    <th>{{msg[1]}}</th>
                   </tr>
                  <tr>
                    <th>{{msg[4]}}</th>
                    <th>{{msg[5]}}</th>
                  </tr>
                  <tr>
                    <th>{{msg[6]}}</th>
                    <th>{{msg[7]}}</th>
                  </tr>

                    <tr>
                       <th>{{msg[8]}}</th>
                       <th>{{msg[9]}}</th>
                    </tr>
                    </table>
              </div>

              </div>
             <div class="box2">

                <div class="bcol">
```

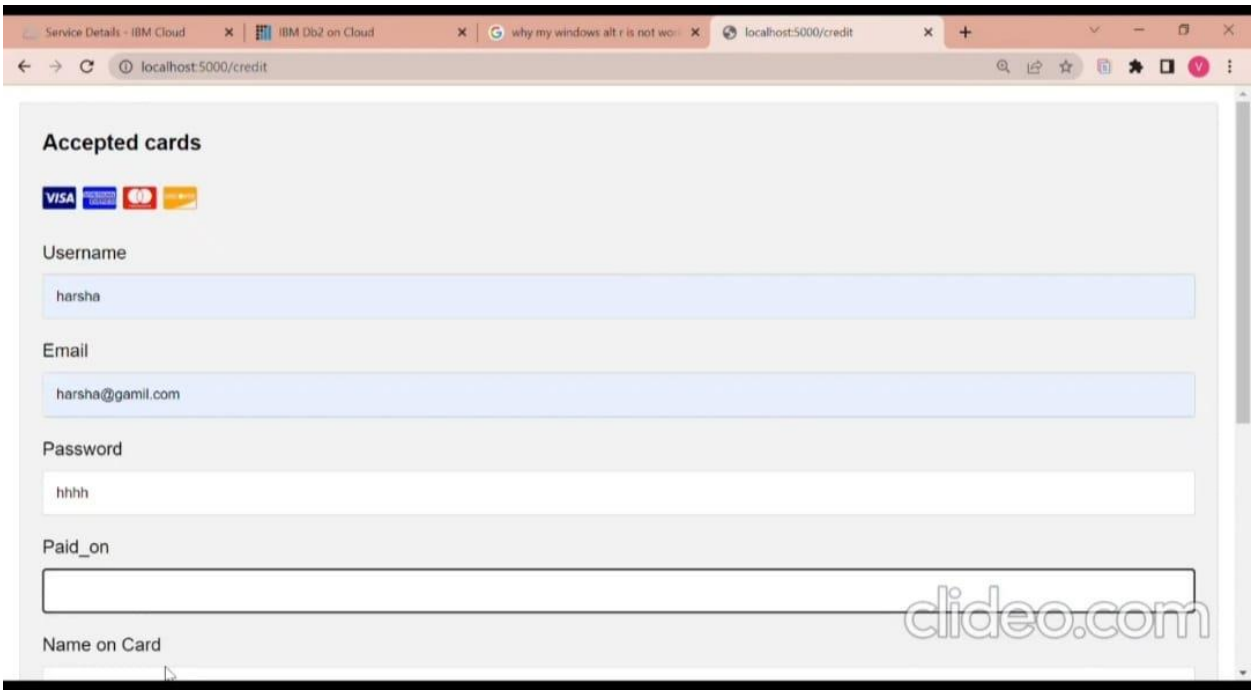
```
<table id="mytable2" >
 <tr>
  <th colspan="2" style="background-color:#ffffff
;margin-top: 25px;font-weight: bold;padding-left: 15px;">Nutrition
Facts</th>
 </tr>
  <tr>
    <th>Calories</th>
    <th id="calories"></th>
   </tr>
  <tr>
    <th>Total Fat</th>
    <th id="totalfat"></th>
  </tr>
  <tr>
    <th>Cholesterol</th>
    <th id="cholesterol"></th>
  </tr>
  <tr>
    <th>Carbohydrates</th>
    <th id="carbohydrates"></th>
   </tr>
  <tr>
    <th>Calcium</th>
    <th id="calcium"></th>
  </tr>
  <tr>
    <th>Sodium</th>
    <th id="sodium"></th>
  </tr>
  <tr>
    <th>Potassium</th>
    <th id="potassium"></th>
  </tr>
  <tr>
```

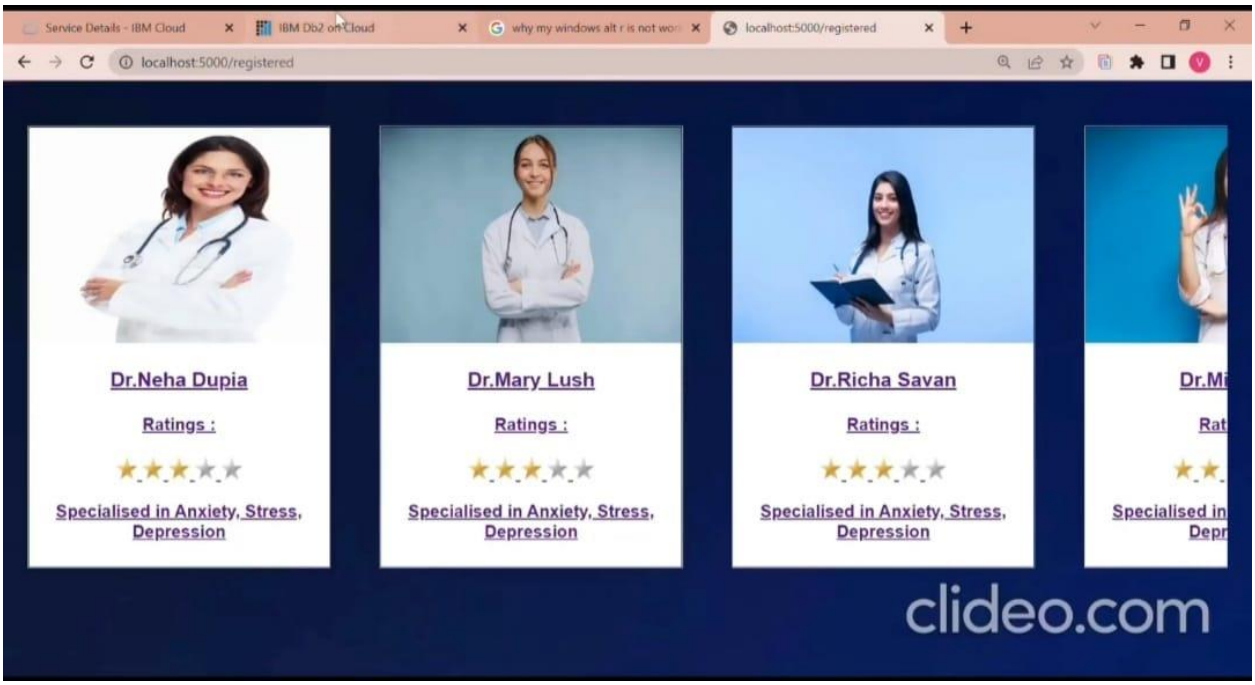
```
                    <th>Sugar</th>
                    <th id="sugar"></th>
                  </tr>
                  <tr>
                    <th>Protein</th>
                    <th id="protein"></th>
                  </tr>

                  <tr>
                    <th>Vitamin A</th>
                    <th id="vitaminA"></th>
                  </tr>
                  <tr>
                    <th>Vitamin C</th>
                    <th id="vitaminC"></th>
                  </tr>
                </table>
              </div>
            </div>
        </div>

        <script>
            function getNutrients(){
                const options = {
                method: 'GET',
                headers: {
                    'X-RapidAPI-Key':
'e265f441b6mshb2c32e392137c4fp180d62jsnd464b9c5a77b',
                    'X-RapidAPI-Host': 'edamam-edamam-nutrition-
analysis.p.rapidapi.com'
                }
            };
            let data = document.getElementById("product-name").value
            fetch('https://edamam-edamam-nutrition-
analysis.p.rapidapi.com/api/nutrition-data?ingr=' + data, options)
```

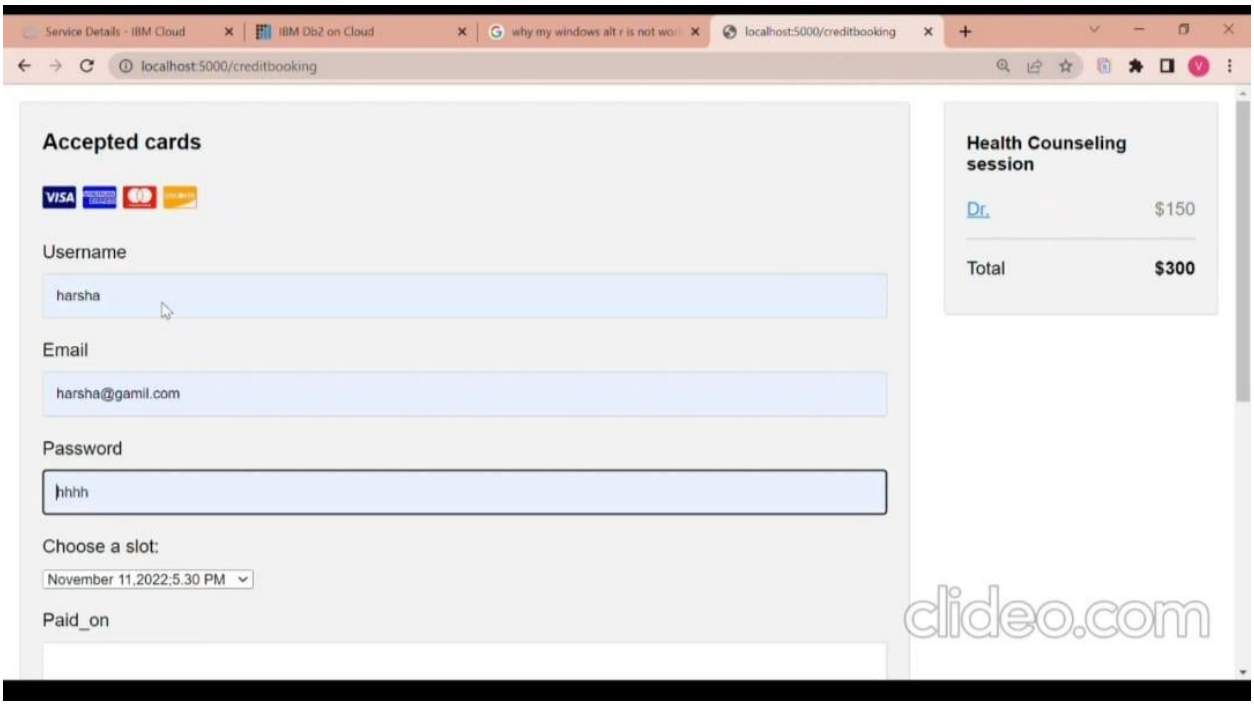
```
        .then(response => response.json())
        .then(response => {result = response;
       console.log(result)
          document.getElementById("totalfat").innerText =
result.totalNutrients.FAT.quantity.toFixed(2) + " " +
result.totalNutrients.FAT.unit;
          document.getElementById("calories").innerText =
result.calories;
          document.getElementById("cholesterol").innerText =
result.totalNutrients.CHOLE.quantity.toFixed(2) + " " +
result.totalNutrients.CHOLE.unit;
          document.getElementById("calcium").innerText =
result.totalNutrients.CA.quantity.toFixed(2) + " " +
result.totalNutrients.CA.unit;
          document.getElementById("sodium").innerText =
result.totalNutrients.NA.quantity.toFixed(2) + " " +
result.totalNutrients.NA.unit;
          document.getElementById("potassium").innerText =
result.totalNutrients.K.quantity.toFixed(2) + " " +
result.totalNutrients.K.unit;
          document.getElementById("sugar").innerText =
result.totalNutrients.SUGAR.quantity.toFixed(2) + " " +
result.totalNutrients.SUGAR.unit;
          document.getElementById("protein").innerText =
result.totalNutrients.PROCNT.quantity.toFixed(2) + " " +
result.totalNutrients.PROCNT.unit;
          document.getElementById("carbohydrates").innerText =
result.totalNutrients.CHOCDF.quantity.toFixed(2) + " " +
result.totalNutrients.CHOCDF.unit;
          document.getElementById("vitaminA").innerText =
result.totalNutrients.VITA_RAE.quantity.toFixed(2) + " " +
result.totalNutrients.VITA_RAE.unit;
          document.getElementById("vitaminC").innerText =
result.totalNutrients.VITC.quantity.toFixed(2) + " " +
result.totalNutrients.VITC.unit;
```

```
            document.getElementById('calories1').value  = result.calories;
            document.getElementById('protein1').value =
result.totalNutrients.PROCNT.quantity.toFixed(2)
            document.getElementById('carbohydrates1').value =
result.totalNutrients.CHOCDF.quantity.toFixed(2)
            document.getElementById('fat1').value =
result.totalNutrients.FAT.quantity.toFixed(2)
            document.getElementById('calcium1').value =
result.totalNutrients.CA.quantity.toFixed(2)
            document.getElementsByClassName("box2")[0].style.display
= 'block';
            console.log(document.getElementById('fat1').value)
            })
        .catch(err => console.error(err));

        }


    </script>
  </body>
</html>
```

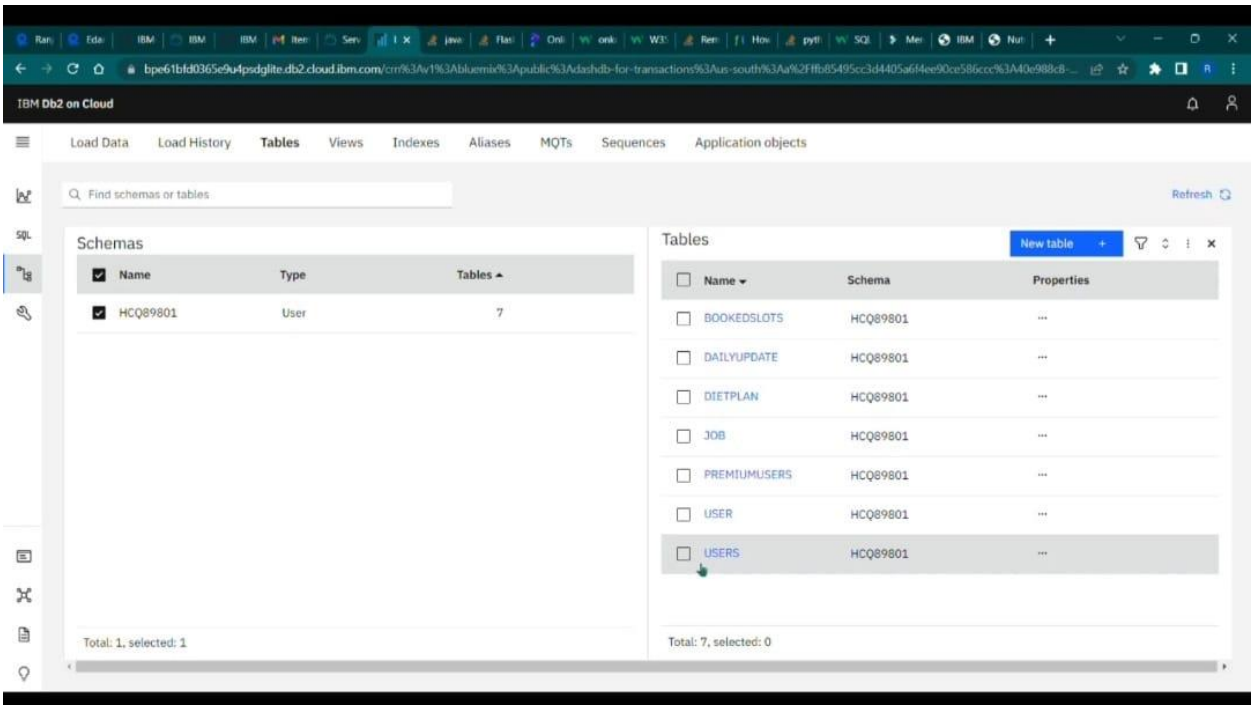

127.0.0.1:5000/premium
Premium Account
The doctor of the future will no longer treat the human frame with drugs, but rather will cure and prevent disease with nutrition.
Register to go premium!
Book
Your just one step away ! It takes less than a minute
Select payment method
Credit card
Debit card


Service Details - IBM Cloud
IBM Db2 on Cloud
localhost:5000/credit
localhost:5000/credit
Accepted cards
Username
harsha
Email
harsha@gamil.com
Password
hhhh
Paid_on
Name on Card
clideo.com





7.3 Database Schema


IBM Db2 on Cloud
Load Data
Load History
Tables
Views
Indexes
Aliases
MQTs
Sequences
Application objects
Find schemas or tables
Refresh
Schemas
Name
Type
Tables
HCQ89801
User
7
Total: 1, selected: 1
Tables
New table
Name
Schema
Properties
BOOKEDSLOTS
HCQ89801
DAILYUPDATE
HCQ89801
DIETPLAN
HCQ89801
JOB
HCQ89801
PREMIUMUSERS
HCQ89801
USER
HCQ89801
USERS
HCQ89801
Total: 7, selected: 0

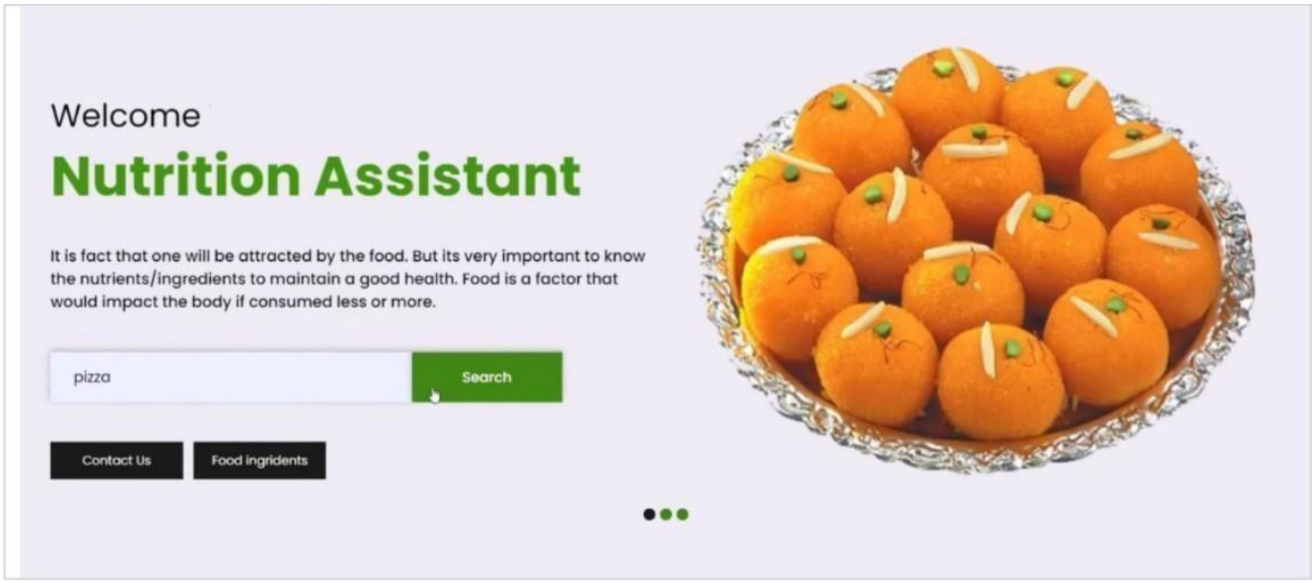
TESTING

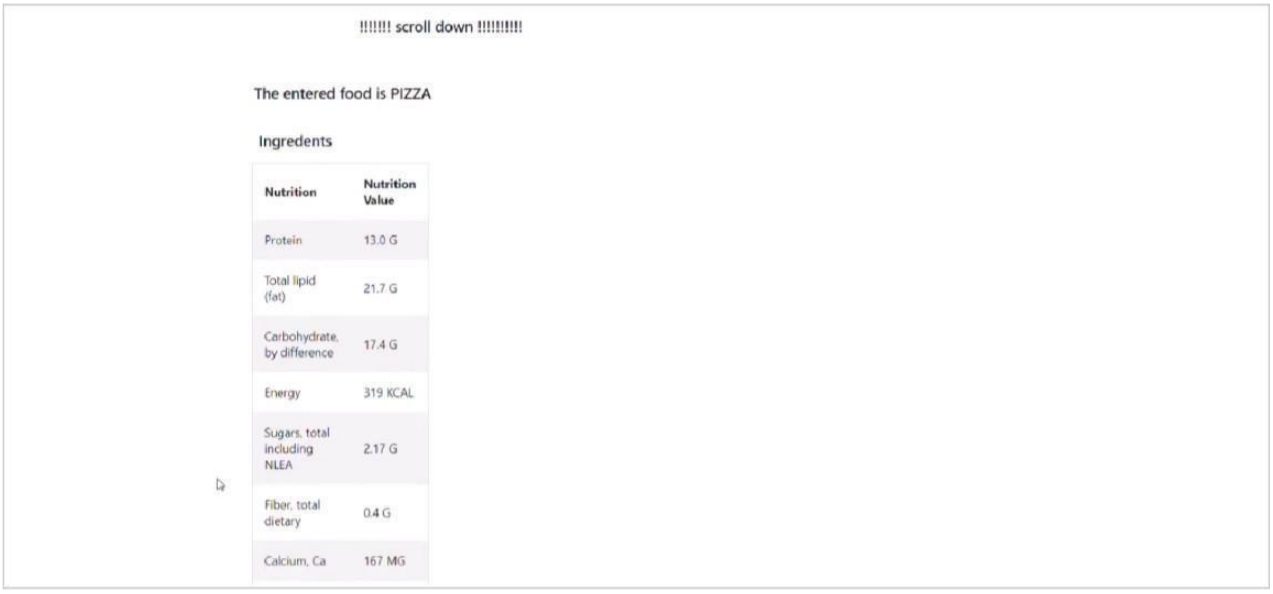
1) Test Cases

i. Our code was tested on various food to check whether it gives the correct output
ii. To satisfy the customer's expectations we tested it fully.

2) User Acceptance Testing

Our project was tested by an end user to verify that it's working correctly.

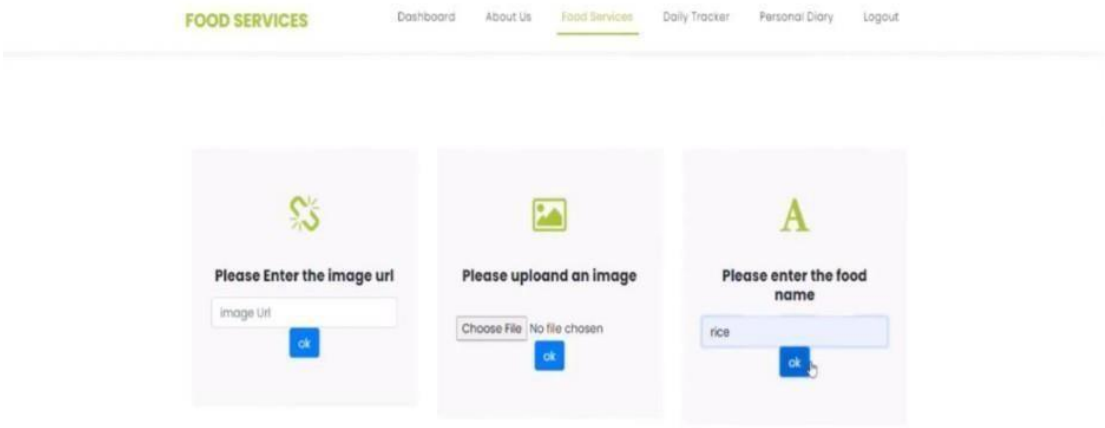




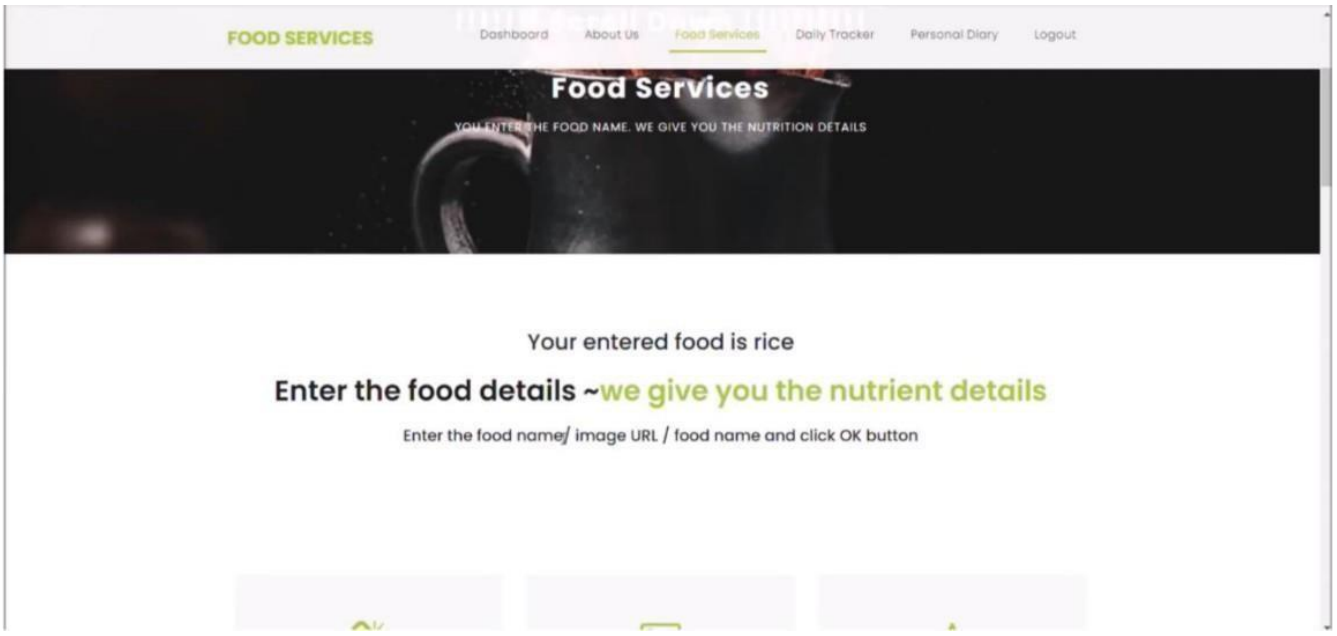
RESULTS

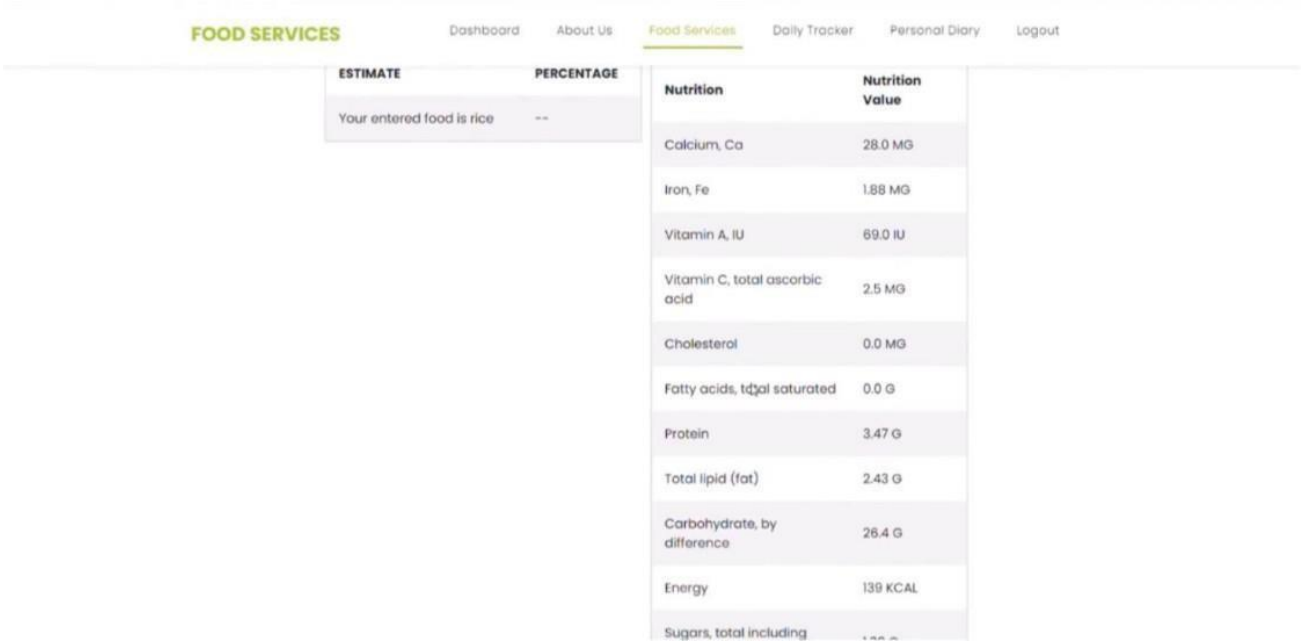
Performance Metrics

The proposed procedure was implemented and tested set of images. The training database consists of various images of food items. Once a food is recognized the equivalent **Nutrition** in shown on the screen



If the photo is blurr/not clear our services may find it difficult to process,so please upload clear image.
In case not working, enter the food name with proper spelling.





ADVANTAGES

> It provides a maintained strategy of healthy eating habits.

> It delivers information on the nutritional value of foods and howbalanced and healthy eating habits are important for us.

> It limits the amount of unnecessary food such as fat that peopleconsumea lot.

CONCLUSION

In conclusion, many people have become aware of their health. Moreover, they arealso informed how to live a healthy lifestyle. Most of the research related to these themes aims to identify changes in healthy lifestyle behavior with web applications that are considered effective in dietary self-monitoring.

FUTURE SCOPE

Nutrition assistants help dietitians with providing proper nutrition at healthcare facilities. They determine patients' nutritional needs, assess risk factors, and plan meals and menus.They also ensure proper sterilization of plates and utensils.

APPENDIX

1) Source Code

```
from flask import Flask,render_template,request,redirect,url_for ,session
import ibm_db
import re
import os
import math
import random
import smtplib
import requests
app=Flask(__name__,template_folder='templates',static_folder='static')
app.secret_key='a'
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=ea286ace-86c7-4d5b-8580-3fbfa46b1c66.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=3
print("successfully connected")
@app.route('/')
def home():
    return render_template('index.html')


@app.route('/login',methods=['GET','POST'])
def login():
    global userid
    msg=''

    if request.method=='POST':
        username=request.form.get('username',False)
        password=request.form.get('password',False)
        sql='SELECT * FROM USER WHERE username=? AND password=?'
        stmt=ibm_db.prepare(conn,sql)
        ibm_db.bind_param(stmt,1,username)
        ibm_db.bind_param(stmt,2,password)
        ibm_db.execute(stmt)
        account=ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            session['Logged in']=True
            session['id']=account['USERNAME']
            userid=account['USERNAME']
            session['username']=account['USERNAME']
            msg='Logged in successfully'
```

```
            msg="You have successfully registered"
            return render_template('verify.html',msg=msg)
    elif request.method=="POST":
        msg="Please fill out the form"
    return render_template('register.html',msg=msg)

@app.route('/welcome')
def welcome():
    return render_template('welcome.html')

@app.route('/verify')
def verify():
        email=request.args.get('email', None)
        server=smtplib.SMTP('smtp.gmail.com',587)
        server.starttls()
        password="nsgeuedwbzptosyp"
        server.login(email,password)
        otp=''.join([str(random.randint(0,9))for i in range(4)])
        msg=' YOUR OTP IS'+str(otp)
        server.sendmail(email,email,msg)
        server.quit()
        if request.method=='POST':
            verify=request.method['code']
            if verify==otp:
                return render_template('login.html')
        return render_template('verify.html')

@app.route('/frgpwd', methods=['GET','POST'])
def frgpwd():
    msg =" "
    print(request.form)
    username1=request.form.get("uname", False)
    oldpassword=request.form.get("oldpassword", False)
    newpassword=request.form.get("newpassword", False)
    sql='SELECT * FROM USER WHERE username=?'
    stmt=ibm_db.prepare(conn,sql)
    ibm_db.bind_param(stmt,1,username1)
```

```
            return render_template('dash.html')
        else:
            msg='Incorrect username/password'
    return render_template('login.html',msg=msg)

@app.route('/register',methods=['GET','POST'])
def register():
    msg=''
    if request.method =='POST':
        username=request.form['username']
        email=request.form['email']
        password=request.form['password']
        Firstname=request.form['firstname']
        lastname=request.form['lastname']
        #phoneno=request.form['phoneno']
        sql='SELECT * FROM USER WHERE username=?'
        stmt=ibm_db.prepare(conn,sql)
        ibm_db.bind_param(stmt,1,username)
        #ibm_db.bind_param(stmt,2,password)
        ibm_db.execute(stmt)
        account=ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            msg="Account already exist!"
        elif not re.match(r'[^@]+@[^@]+\.[^@]+',email):
            msg="Invalid email address"
        elif not re.match(r'[A-Za-z0-9]+',username):
            msg="name must contain character and numbers"

        else:
            insert_sql='INSERT INTO USER values(?,?,?,?,?)'
            prep_stmt=ibm_db.prepare(conn, insert_sql)
            ibm_db.bind_param(prep_stmt,1,username)
            ibm_db.bind_param(prep_stmt,2,email)
            ibm_db.bind_param(prep_stmt,3,password)
            ibm_db.bind_param(prep_stmt,4,Firstname)
            ibm_db.bind_param(prep_stmt,5,lastname)
            ibm_db.execute(prep_stmt)
```

```
        chgpwd_sql='UPDATE USER SET password = ? WHERE username = ?'
        prep_stmt=ibm_db.prepare(conn, chgpwd_sql)
        ibm_db.bind_param(prep_stmt,1,newpassword)
        ibm_db.bind_param(prep_stmt,2,username1)
        ibm_db.execute(prep_stmt)
        msg="You have successfully changed password"
        return render_template('forgot password.html',msg=msg)
    return render_template('forgot password.html',msg=msg)

url = "https://low-carb-recipes.p.rapidapi.com"

headers = {
  "x-rapidapi-key": "ad933ea36amsh6b0a83e514b1a58p14bc9ejsne745a5851a1b",
  "x-rapidapi-host":  "low-carb-recipes.p.rapidapi.com"
  }

searchForRecipes = "/search"
getRecipe="/recipes/"
getImage="/images/2807982c-986a-4def-9e3a-153a3066af7a.jpeg"
getRandomRecipe="/random"

@app.route('/login/dash')
def dashboard():
    return render_template('dash.html')

@app.route('/login/dash/viewprofile')
def viewprofile():
    username=session['id']
    sql='SELECT * FROM USER WHERE username=?'
    stmt=ibm_db.prepare(conn,sql)
    ibm_db.bind_param(stmt,1,username)
    ibm_db.execute(stmt)
    account=ibm_db.fetch_assoc(stmt)
    print(account)
    if account:
        return  render_template('viewprofile.html')
    else:
```

```python
@app.route('/login/dash/viewprofile/personinfo',methods=['GET','POST'])
def per_info():
    msg=''
    if request.method =='POST':
        Name=request.form['Name']
        gender=request.form['gender']
        tar_weight=request.form['Target Weight']
        Age=request.form['Age']
        Height=request.form['Height']
        Weight=request.form['Weight']
        email=request.form['email']
        location=request.form['location']
        phoneno=request.form['phoneno']
        sql='SELECT * FROM USER WHERE username=?'
        stmt=ibm_db.prepare(conn,sql)
        ibm_db.bind_param(stmt,1,Name)
        ibm_db.execute(stmt)
        account=ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            insert_sql='INSERT INTO USER values(?,?,?,?,?,?,?)'
            prep_stmt=ibm_db.prepare(conn, insert_sql)
            ibm_db.bind_param(prep_stmt,1,Name)
            ibm_db.bind_param(prep_stmt,2,gender)
            ibm_db.bind_param(prep_stmt,3,Age)
            ibm_db.bind_param(prep_stmt,4,Height)
            ibm_db.bind_param(prep_stmt,5,Weight)
            ibm_db.bind_param(prep_stmt,7,location)
            ibm_db.execute(prep_stmt)
            msg="Your details are successfully stored"
            return render_template('viewprofile.html',msg=msg)
    elif request.method=="POST":
        msg="Please fill out the form"
    return render_template('personal info.html',msg=msg)

@app.route('/login/dash/feedback',methods=['GET','POST'])
```

```python
        if account:
            insert_sql='INSERT INTO USER values(?,?,?)'
            prep_stmt=ibm_db.prepare(conn, insert_sql)
            ibm_db.bind_param(prep_stmt,1,Name)
            ibm_db.bind_param(prep_stmt,2,email)
            ibm_db.bind_param(prep_stmt,3,Feedback)
            ibm_db.execute(prep_stmt)
            msg="Your Feedback has been stored"
            return render_template('ratings.html',msg=msg)
    elif request.method=="POST":
        msg="Please fill out the form"
    return render_template('ratings.html',msg=msg)

@app.route('/dash/view recipe')
def search_page():
  #session ['item']=request.form.get("Ingridients", False)
  return render_template('search.html')
@app.route('/recipes')
def get_recipes():
  #food=session['item']
  if (str(request.args['ingridients']).strip() != ""):
      print(request.args['ingridients'])
      # If there is a list of ingridients -> list
      querystring = {"name":request.args['ingridients'],"tags":request.args['tag'],"includeIngredients":request.args['included'],"exclude
      response = requests.request("GET", url + searchForRecipes, headers=headers, params=querystring)
      data=response.json()
      return render_template('recipes.html', recipes=data)
  else:
      # Random recipes
      response = requests.request("GET", url+ getRandomRecipe  , headers=headers)
      data=response.json()
      return render_template('recipes.html', recipes=data)

@app.route('/recipe')
def get_recipe():
  recipe_id = request.args['id']
  recipe_info_endpoint = "/recipes/{0}".format(recipe_id)
```

```
        data=response.json()
        return render_template('recipes.html', recipes=data)

@app.route('/recipe')
def get_recipe():
  recipe_id = request.args['id']
  recipe_info_endpoint = "/recipes/{0}".format(recipe_id)
  print(recipe_info_endpoint)
  recipe_info = requests.request("GET", url + recipe_info_endpoint, headers=headers)
  data=recipe_info.json()
  return render_template('recipe.html', recipe=data)


@app.route('/logout')
def logout():
    session.pop('loggedin',None)
    session.pop('id',None)
    session('username',None)
    return render_template("index.html")

if __name__=="__main__":
    app.run(debug=True ,host='0.0.0.0',use_reloader=False)
```

2) GitHub

https://github.com/IBM-EPBL/IBM-Project-17008-1659626698

Drive link

https://drive.google.com/file/d/1ZwOj-8ZHMsRUkWnZXIY1VMZMmGeq8hqe/view?usp=drivesdk