NUTRITION ASSISTANT APPLICATION
FINAL REPORT

TEAM ID : PNT2022TMID01747

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1.INTRODUCTION:

1.1 Project Overview:

Good nutrition promotes not simplest better bodily health and reduced susceptibility to disease, however has also been tested to make contributions to cognitive improvement and academic achievement. Left to their personal gadgets, kids will now not automatically choose healthful foods.

Nutrition is the method of consuming, soaking up, and the usage of vitamins wished via the frame for boom, improvement, and renovation of existence. To get hold of adequate, suitable nutrition, humans want to consume a healthful food regimen, which consists of a ramification of vitamins the materials in ingredients that nourish the frame.

Living a healthful life-style can assist prevent chronic diseases and lengthy-term illnesses. Feeling excellent approximately yourself and taking care of your health are essential in your self-esteem and self-photo. Maintain a wholesome life-style through doing what is proper to your body.

At last I want to conclude that food and fitness both are associated with every different. Our fitness relies upon upon what meals we eat and how much we consume. Therefore we need to be careful at the same time as consuming.

For these kind of needs our platform supports to lead a healthy existence.

1.2 Purpose:

  Nutrition assistant application helps dieticians with providing proper vitamins at healthcare centers. It determine nutritional wishes and assets chance elements. Nutritional evaluation lets in healthcare carriers to systematically assess the meals diagnose malnutrition, become aware of underlying pathologies in food that lead to malnutrition, and plan necessary interventions.

  Nutrition apps can assist make existence easier for folks who need to song their food consumption for health reasons. Eating a balanced weight loss plan isn't always always easy, especially while consuming out, looking to prepare dinner new recipes, or handling the needs of a hectic existence.

2. LITERATURE SURVEY:

2.1 Existing Problem:

  In this pandemic situation, we need to lead a healthier life by means of taking healthier intake of foods .But in our fast moving world while we taking food we can't find a chart and check whether the food is nutritional food or not . Thus to overcome that risky we created a application known as nutrition assistant application.

2.2 References:

Author	Paper title	Year	Journal	Critics

Doustmohammadin,A. et al.	Food and nutrition literacy (FNLIT)	2019	Nutrition &Food Science Research (NFSR)	Absence of randomization, unbalanced baseline, and inadequate education intervenation duration.
Rebecca Copeland	Food and Nutrition Technical Assistance Project Assessment	2002	Health and nutrition Bureau for global programs	Nutrition screening include not validating tools for specific patient populations, inaccurate information and the use of invalidated laboratory values.
Alberto March	Nutritional care and support for patients with tuberculosis	2013	World Health Organisation(WHO)	In patients with tuberculosis, it leads to reduction in appetite, micronutrient malabsorption and altered metabolism leading to wasting.
Hauptman . H	Effects and Challenge of using a nutrition assistance system	2021	springer	About the system influence on the user physique, nutrition behaviour, System interaction as well as the contextual limitations in real-life.

| Heather Suzanne	Development of a Personal Diet Plan Database Application For Persons With Serve Food allergies	2005	Regis University	The major Development issue encountered were a direct result of the fact that the student was not an experienced java developer, Further more,all of her java experience was classroom based instead of real-world.
Nathanael pingault	Nutrition and food systems	2017	High Level Panel of Experts (HLPE)	Poor nutrition can contribute to stress, tiredness and our capacity to work and over time, the risk of developing some illness and other health problems such as high blood pressure.

2.3 Problem statement definition:

A problem statement is a concise description of the problem or issues a project seeks to address. The problem statement identifies the current state, the desired future state and any gaps between the two. A problem statement is an important communication tool that can help ensure everyone working on a project knows what the problem they need to address is and why the project is important.

A problem statement is important to a process improvement project because it helps clearly identify the goals of the project and outline the scope of a project. It also helps guide the activities and decisions of the people who are working on the project. The problem statement can help a business or organization gain support and buy-in for a process improvement project.

3.IDEATION AND PROPOSED SOLUTION:

3.1 Empathy Map Canvas:
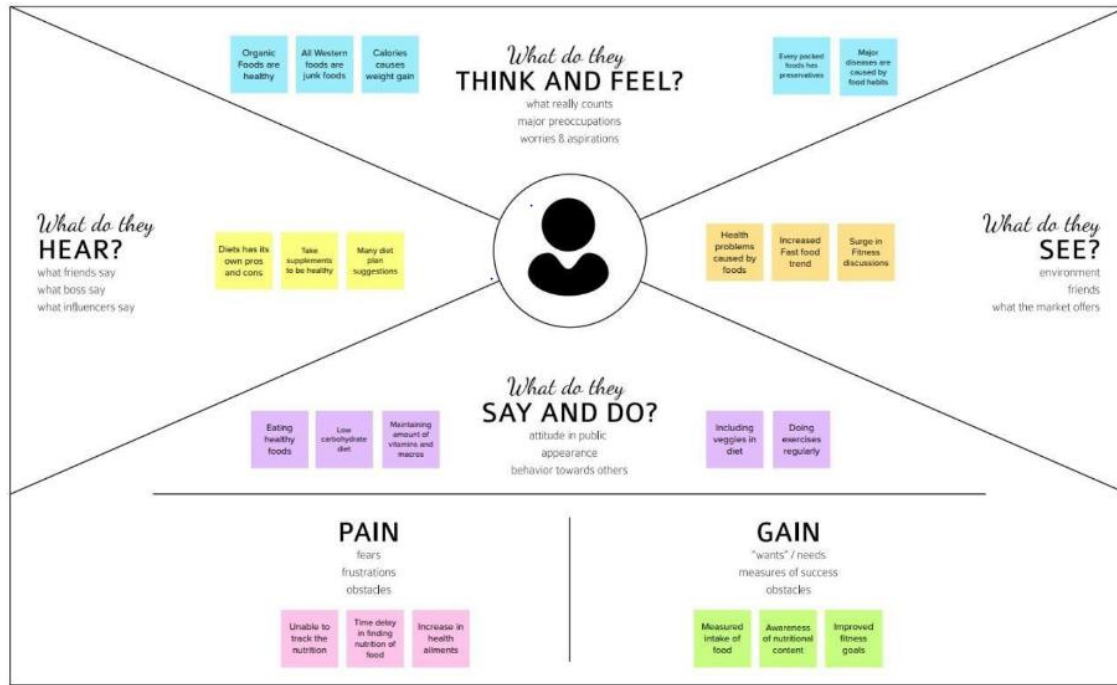
An empathy map is a collaborative tool teams can use to gain a deeper insight into their customers. Much like a user persona, an empathy map can represent a group of users, such as a customer segment. The empathy map was originally created by Dave Gray and has gained much popularity within the agile community.

3.2 IDEATION AND BRAINSTORM

Define your problem statement:

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

PROBLEM

In this pandemic situation, we are in need to eat a healthy food .But in this fastest world we can't carry a nutrition chart to every place to identify the healthy food .

BRAINSTORM:

Write down any ideas that come to mind that address your problem statement.

Group ideas:

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

Group 1

- Instant product result
- Accessible in any country
- Interactive Web Application.
- Secure Authentication.

Group 2

- Low Energy Consumption
- Short time output.
- Works under low data connection
- Reliable Service.
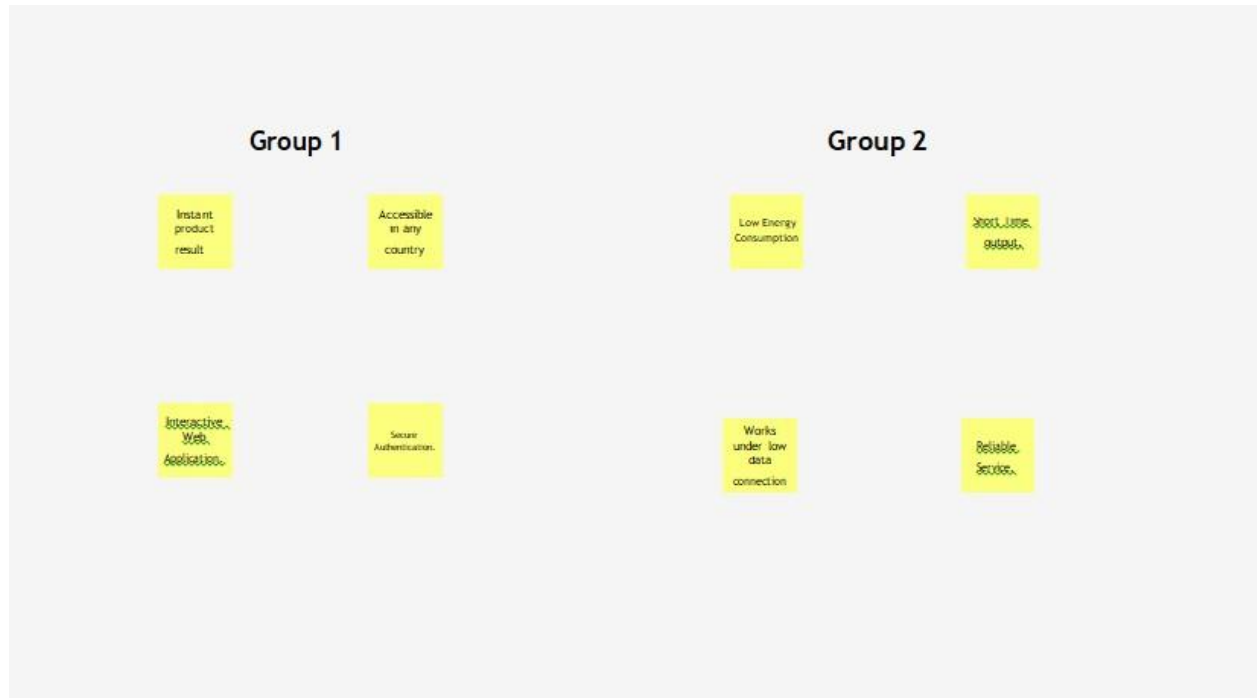
Prioritize:

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.
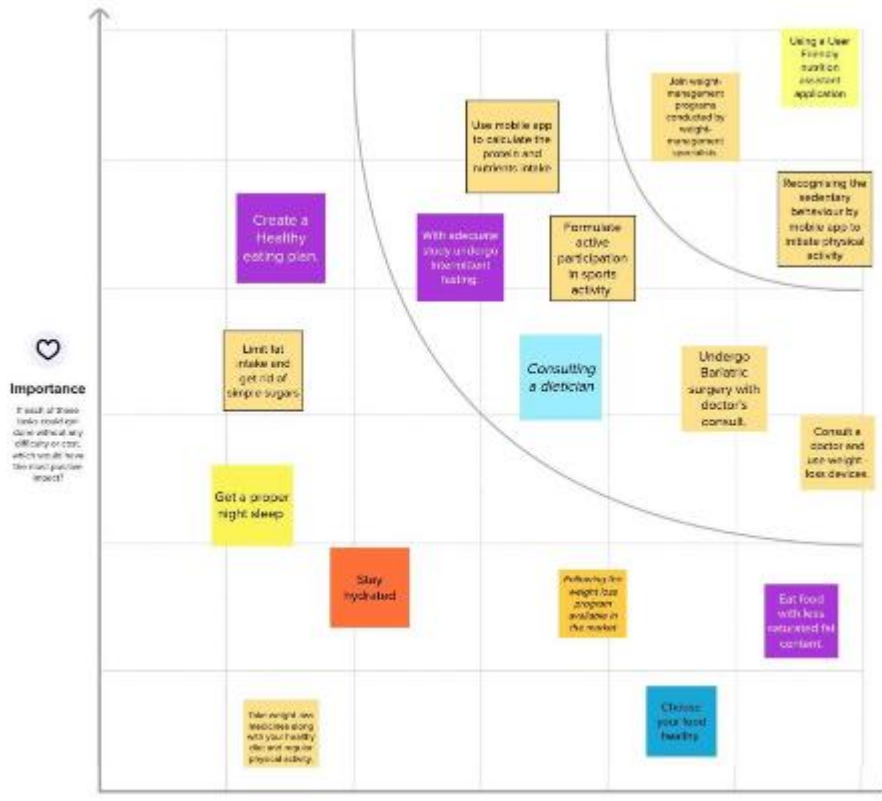
3.3 PROPOSED SOLUTION:

Proposed Solution Template: Project team shall fill the following information in proposed solution template.

S.No:	Parameter	Description
1.	Problem Statement (Problem to be Solved)	❖ Nowadays peoples are not eating good food varieties with respect to their health condition. Assuming that it happens constantly implies, it will prompt obesity and some other medical conditions. ❖ To keep away from that the framework will identify and perceive the food and assessing the nutrient values present in the food.
2.	Idea / Solution Description	✝ To store the food and subtleties of the nutrients present in it. ✝ Then examine the continuous food and recover the comparing food's nutrient values.
3.	Novelty / Uniqueness	✝ Clustering the peoples based on their BMI value.

4.	Social Impact / Customer Satisfaction	☩ The application which gives awareness among the people about the obesity and various health problems.
5.	Business Model (Revenue Model)	☩ In market, this application gives a benefit across the people by health wise and economical wise.
6.	Scalability of the Solution	☩ The application which creates an impact among the healthy lifestyle.

3.4 Problem Solution Fit:

1. CUSTOMER SEGMENT(S)

People who are highly careless about eating healthy food for their health condition and who wish to balance the nutritional content of their daily consumption.

2. JOBS-TO-BE-DONE / J&P PROBLEMS

Obesity and the user's anxiety about developing health-related problems are his or her problems. If they don't see results right away, they'll get impatient and find

it difficult to finish laborious chores. They lack confidence as a result of their appearance.

3. TRIGGERS

People who practice healthy eating habits tend to be successful and fit

4. EMOTIONS: BEFORE / AFTER

They will take good care of their bodies by eating healthy foods because they are afraid of becoming obese and because their physical condition makes them feel insecure.

5. AVAILABLE SOLUTIONS

Although food packaging includes nutrition (and calorie) labels, customers still find it difficult to accept or believe them. Making a nutrition helper application is therefore preferable.

6. CUSTOMER

The user must upload a clear photo of the food, which can be a menu item from a restaurant that provides a clear context for the food picture or the picture they took when they received the food, in order to have the nutrition content of the food image posted.

7. BEHAVIOUR

Everybody has the long-term objective of living a healthy life. One must maintain a daily pattern of a balanced diet that includes all nutrition in order to achieve them

8. CHANNELS of BEHAVIOUR

8.1 ONLINE

From the website, customers can get the nutrition level of the food.

8.2 OFFLINE

Conducting offline awareness program for healthy life standard.

9. PROBLEM ROOT CAUSE

Nowadays, eating unhealthy food, such as fast food, is common. Fast food is frequently consumed by people for reasons other than their health.

10. YOUR SOLUTION

The user must upload the food image first, after which the meal's calories and nutritional information will be presented. User activities are also recorded for future use.

4. REQUIREMENTS :

4.1 Functional Requirements:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail And set a unique Password.
FR-2	User Login	User can login to the Application page whom

		already registered the registration.
FR-3	User Request	The user sends the request to the server to know about the food nutrition value and calories
FR-4	Server Response	The server sends the response to the user sent requested, that to display the nutrition value of the user sent image.
FR-5	User activity	The user will check the BMI value through the BMI calculator and then get the proper diet plan.
FR-6	User -> Server Server -> User (User interaction with the application)	First the user will send the request, (they took a picture and upload it to the page) then the server responds the user sent request (the server notify the picture and upload the nutrition value of the given picture).

4.2   Non Functional Requirements:

| FR No.	Non-Functional Requirement	Description

NFR-1	**Usability**	The client will utilize the application through the web. There is an eating diet plan for individual BMI esteemed individual. In this way, that was viable to the client.
NFR-2	**Security**	We maintain the normal secured protocol for the security frameworks. To prevent the user information's.
NFR-3	**Reliability**	Its so dependable to the clients on the grounds that the data we are giving on the web application is completely taken the nutrition expert and some top references of the nutrition value pages.
NFR-4	**Performance**	The performance of the application relies upon the network and internet level of high. What's more, it's performed when the server frameworks on.
NFR-5	**Availability**	Its accessible to each individual who has smart phones, PCs and tablets with the

		great web access. Its nor has any premium plans so its available for every user.
NFR-6	**Scalability**	Its about the server framework side and we are offering a support for a short scale of users. This application will run how long the server frameworks were going through.

5. PROJECT DESIGN :

5.1   Data Flow Diagrams:

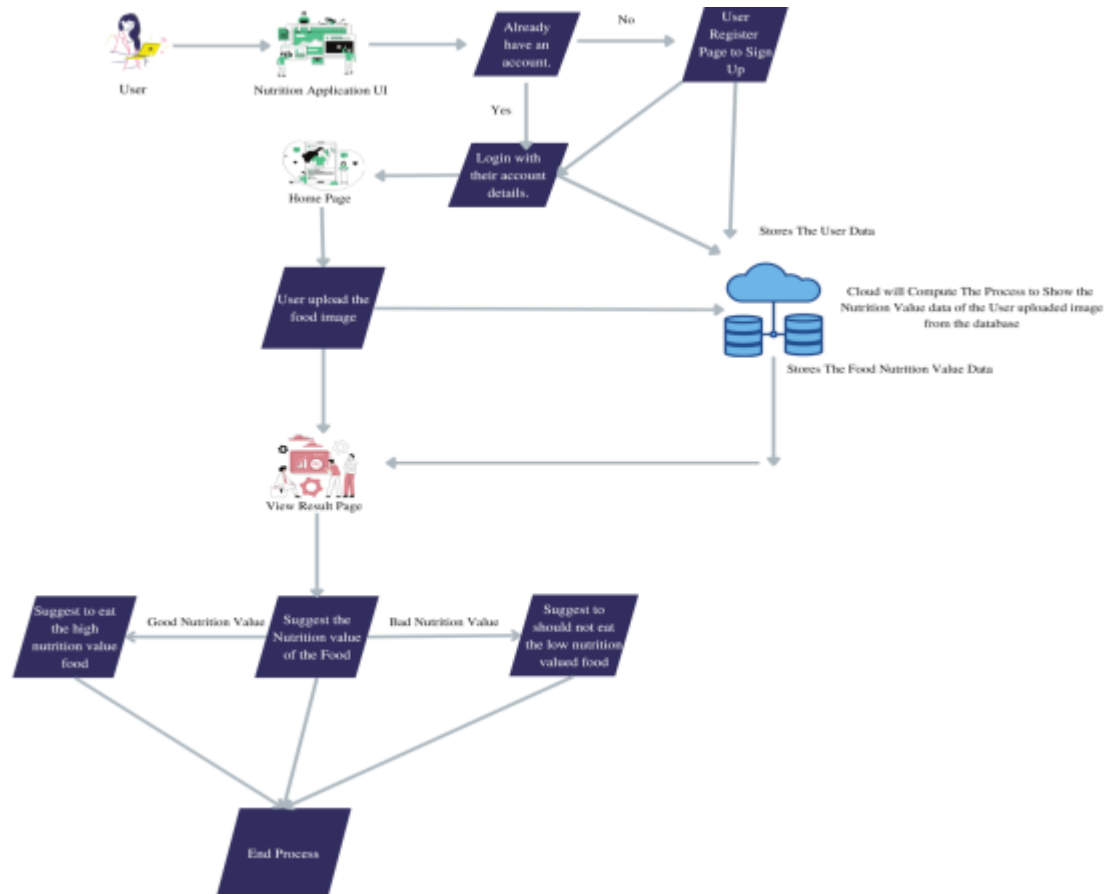A Data Flow Diagram is a way of representing a flow of data through a process or a system. A Data Flow Diagram is a traditional visual representation of the information flow within a system.it shows how data enters and leaves the system, what changes the information ,and where data is stored.
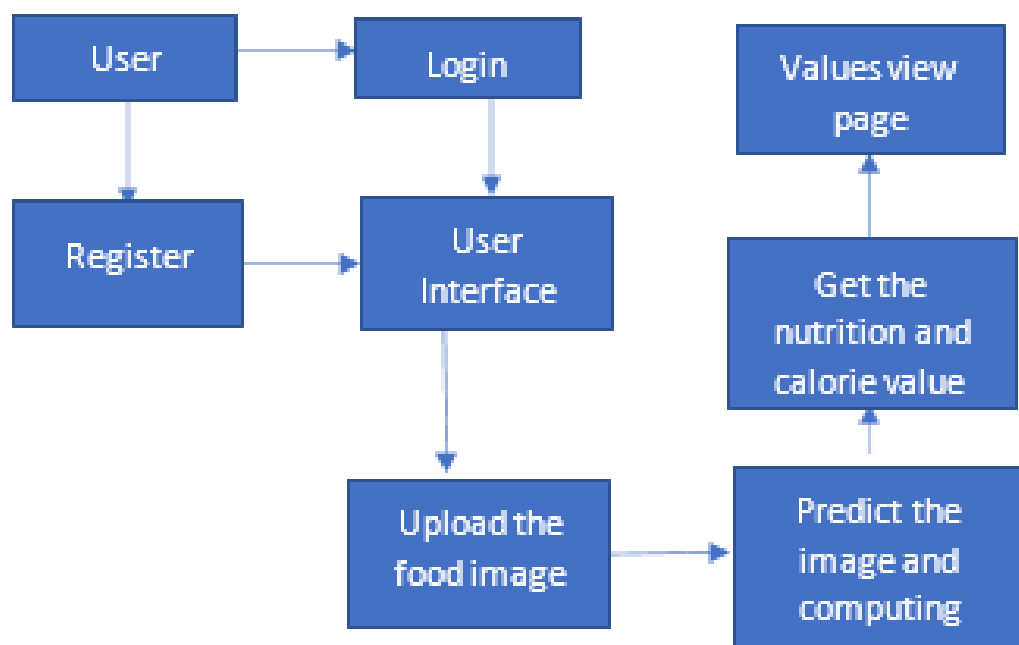
5.2   Solution Architecture & Technical Architecture:

Solution Architecture:

Technical Architecture:
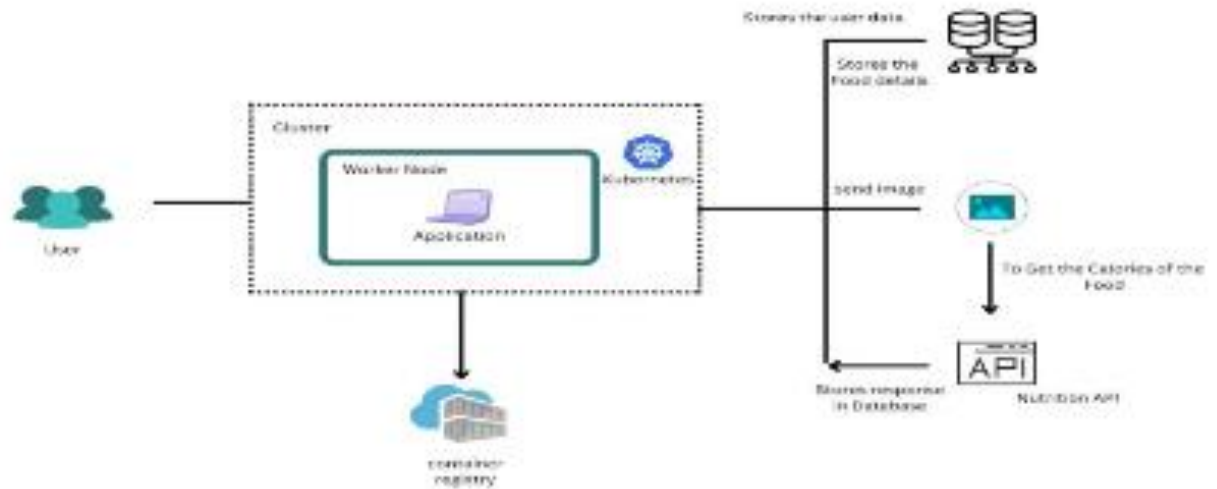
5.3 User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for	I can receive confirmation email & click confirm	High	Sprint-1

			the application			
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password		High	Sprint-1
	Dashboard	USN-6	User get into the dashboard and see's the different web pages to compute what the user needs.		High	Sprint-1
Customer (Web user)	Registration	USN-7	As a user, I can register the form with username, Emil-id and password.	I can register and able to access the account.	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
		USN-8	As a user, I can register with my google mail-id and password.	I can register & get an access to use the dashboard.	High	Sprint-1
	Login	USN-9	As a user, I can login to the application by entering my mail and password		High	Sprint-1
	Dashboard	USN-10	User get into the dashboard and see's the different web pages to compute what the user needs.		High	Sprint-1
Customer Care Executive	FAQ	USN-11	As a user you'll ask query or doubt about the application to the admin side. As per protocols the user will get the response from the admin.		Medium	Sprint-3

Administrator	Register & login page	USN-12				
	Register page	USN-12(I)	If the user is new to the application admin here to ask the user to sign up first or to fill the register the form from the user to get the user details.	If every thing is acceptable the user will access the Dashboard.	High	Sprint-1
	Login page	USN-12(II)	If the user already registered the admin will get the data and user will login to application by entering email and password where the data are already stored in the database.	User get access to use the Dashboard	High	Sprint-1

6.PROJECT PLANNING & SCHEDULING

6.1 Sprint planning & Estimation

TITLE	DESCRIPTION	DATE
Literature Survey and Information gathering.	Literature survey on the selected project & gathering information by referring the, technical paper research publications etc.	02 SEPTEMBER 2022.
Prepare Empathy Map.	Prepare Empathy Map Canvas to capture the user Pains & Gains, Prepare list of problem statements.	10 SEPTEMBER 2022.
Ideation.	List the idea by organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility & importance.	17 SEPTEMBER 2022.
Proposed Solution.	Prepare the proposed solution document, which includes the novelty,	19 SEPTEMBER 2022.

	Feasibility of idea, business model, social impact, scalability of solution, etc.	
Problem Solution Fit.	Prepare problem - solution fit document.	19 SEPTEMBER 2022.
Solution Architecture.	Prepare solution architecture document.	01 OCTOBER 2022.
Customer Journey.	Prepare the customer journey maps to understand the user interactions & experiences with the application.	14 OCTOBER 2022.
Data Flow Diagrams Draw the data flow.	Data Flow Diagrams, draw the data flow.	15 OCTOBER 2022.
Technology Architecture.	Architecture diagram.	15 OCTOBER 2022.
Prepare Milestone & Activity List.	Prepare the milestones & activity list of the project.	18 OCTOBER 2022.

Project Development - Delivery of Sprint1, 2, 3 & 4.	Develop & submit the developed code by testing it.	1. 29 OCTOBER 2022, 2.05 NOVEMBER 2022, 3. 12 NOVEMBER 2022, 4. 19 NOVEMBER 2022

6.2 Sprint Devivery schedule

Product Backlog, Sprint Schedule, and Estimation

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Jeyanth.M Karthickeyan.N Balaji.R Jeyapreethi.S
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Jeyanth.M Karthickeyan.N Balaji.R Jeyapreethi.S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password	1	High	Jeyanth.M Karthickeyan.N Balaji.R Jeyapreethi.S
Sprint-2	User details	USN-4	As a user , I can fill the Details.	2	High	Jeyanth.M Karthickeyan.N Balaji.R Jeyapreethi.S
Sprint-3	Push notification	USN-5	As a user, I will search the food items.	2	Medium	Jeyanth.M Karthickeyan.N Balaji.R Jeyapreethi.S
Sprint-4	Shown the nutrition details and Recipe for scanned food	USN-6	As a user, I can scan the food an get the nutrition details and recipe for related scanned food.	1	High	Jeyanth.M Karthickeyan.N Balaji.R Jeyapreethi.S

6.3 Reports from Twilio

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	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum.

However, burn down charts can be applied to any project containing measurable progress over time.

Goal : 80 hours in 4 weeks
Burndown Chart
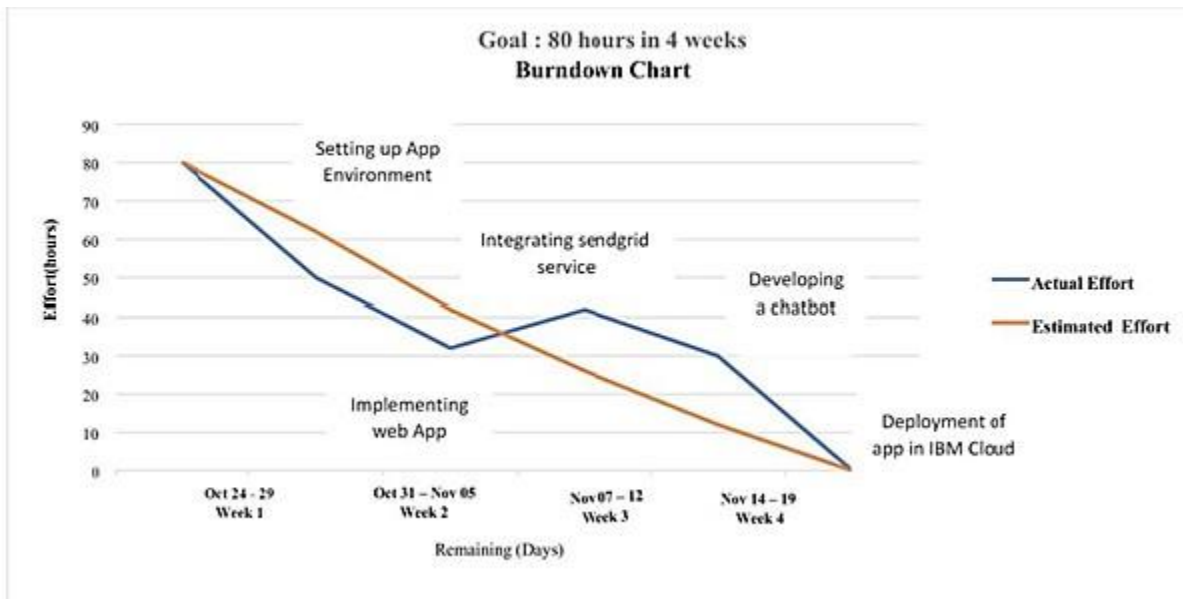
7.CODING AND SOLUTIONING:

7.1. CHANGE PASSWORD:

changepassword.html

```html
<div id="container">


 <div id="header">
  <center><h1>Change Password</h1></center>
 </div>
    <link rel="stylesheet" href="style3.css">
 <div id="form">
  <input type="password" placeholder="New Password" id="passOne"/>
  <input type="password" placeholder="Confirm Password" id="passTwo"/>
 </div>
 <div id="footer" class="incorrect">
  <center><h1 id="footerText">continue </h1></center>
 </div>
</div>
```

STYLE PAGE:

style3.css body

```css
{
  background:url("http://myminispot.com/images/prox.png");  background-size:cover;

}
#container
{
 position:absolute;          background:#fff;

height:350px;  width:300px;        top:50%;

left:50%;    margin-left:-150px;    margin-

top:-175px;



 box-shadow: 0px 30px 150px;
 -webkit-box-shadow: 0px 30px 150px;
 -moz-box-shadow: 0px 30px 150px;


 border-radius:15px;
 -webkit-border-radius:15px;
 -moz-border-radius:15px;
}
#header
{
 background-color:#F26B6B;    font-family: 'Francois One',

sans-serif;   height:75px;   width:300px;   position:absolute;

top:0;

 color:white; margin-top:-2px;


 border-radius: 15px 15px 0px 0px;
 -webkit-border-radius: 15px 15px 0px 0px;
 -moz-border-radius: 15px 15px 0px 0px;
}
```

```css
#footer.incorrect
{
  background-color:#F26B6B;    font-family: 'Francois One',

sans-serif;   height:75px;    width:300px;    position:absolute;

bottom:0;    color:white;    margin-bottom:-2px;


  border-radius: 0px 0px 15px 15px;
  -webkit-border-radius: 0px 0px 15px 15px;
  -moz-border-radius: 0px 0px 15px 15px;
}
#footer.correct
{
  background-color:#84F075;
  font-family:  'Francois   One',   sans-serif;   height:75px;

width:300px;   position:absolute;    bottom:0;    color:white;

cursor:pointer;   margin-bottom:-2px;


  border-radius: 0px 0px 15px 15px;
  -webkit-border-radius: 0px 0px 15px 15px;
  -moz-border-radius: 0px 0px 15px 15px;
}
#form
{
  height:100px;   position:absolute;   top:50%;

margin-top:-50px;    width:75%;    left:50%;

margin-left:-37.5%;

}
input
{
  width:215px;   margin:0;   border:0;   border-

left:1px   solid;        border-right:1px   solid;
```

```
outline:none;    height:50px;    font-size:20px;

padding-left:10px;

}
input#passOne
{
  border-top:1px solid;   border-radius:15px 15px 0px 0px;

  -webkit-border-radius:15px 15px 0px 0px;
  -moz-border-radius:15px 15px 0px 0px;
}
input#passTwo
{
  border-bottom:1px solid;   border-top:1px solid;



  border-radius:0px 0px 15px 15px;
  -webkit-border-radius:0px 0px 15px 15px;
  -moz-border-radius:0px 0px 15px 15px;
}
```

7.2. HOMEPAGE:

```
index.html
<!DOCTYPE html>
<html>
<head> <style> img {   width:

100%;

}
</style>
</head>
<body>
<link rel="stylesheet" href="style.css">
<img src="images.jpeg"width="100" height="200" >
<link rel="stylesheet" href="style.css">
<center><p><h1 style="color:green;">Nutrition Assistant Application</h1></p></center>


   <a href="/logout"><button>Logout</button></a>
     <a href="/delete"><button>Delete Account</button></a>
```

```html
  <a href="profile.html"><button>profile</button></a></p>
    <a href="login.html"><button>Login</button></a></p>
     <form method="POST" action="">
    <center> <label for="file-upload" class="custom-file-upload">
      Upload Food Image
     </label></center>
     <input id="file-upload" type="file" name="food"/>
     <input type="submit" value="Submit" />
    </form>
  </body>
</html>
```

STYLE PAGE:

```css
style.css html {


background: linear-gradient(#85FFBD, #87CEEB);


  height: 100%;     font-family: 'roboto', sans-
serif;     background-repeat: no-repeat;

  display: flex;     justify-content: center;
text-align: center;

}


form {     text-align: center;     box-sizing:
border-box;

}

form input[type="submit"], button {     height: 50px;
width: 200px;
```

```css
    background: linear-gradient(#85FFBD, #87CEEB);       border:
1px solid #f2f2f2;    text-transform: uppercase;    cursor: pointer;
}

form input[type="text"], form
input[type="password"] {    max-width:
400px;    width: 80%;    line-height: 3em;
margin: 1em 2em;    border-radius: 5px;
border: 2px solid #f2f2f2;    outline: none;
padding-left: 10px;
}

input[type="file"] {    display: none;
}

.custom-file-upload {    display: block;    height: 50px;    width:
200px;        background: linear-gradient(#E61F20, #C9000B);
border: 1px solid #f2f2f2;    text-transform: uppercase;    cursor:
pointer;    max-width: 400px;    width: 80%;    line-height: 3em;
margin: 1em 4em;       border-radius: 5px;       border: 2px solid
#f2f2f2;    outline: none;
}

.card {    margin-top: 100px;    background-
color: white;       width: 550px;       height:
```

inherit;   padding: 20px;   border-radius:

12px;

}

7.3.LOGIN

login.html

<!DOCTYPE html>

<!-- Created By CodingLab - www.codinglabweb.com -->

<html lang="en" dir="ltr">

 <head>

  <meta charset="UTF-8">

  <!---<title> Responsive Login Form | CodingLab </title>--->

  <link rel="stylesheet" href="style22.css">

  <link   rel="stylesheet"   href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.2/css/all.min.css"/>

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

 </head>

 <body>

  <div class="container">

   <form action="#">

    <div class="title">Login</div>

    <div class="input-box underline">

     <input type="text" placeholder="Enter Your Email" required>

     <div class="underline"></div>

    </div>

    <div class="input-box">

     <input type="password" placeholder="Enter Your Password" required>

```html
      <div class="underline"></div>        </div>

    <div class="input-box button">

      <input type="submit" name="" value="Continue">

    </div>

  </form>

    <div class="option">or Connect With Social Media</div>

    <div class="twitter">

      <a href="#"><i class="fab fa-twitter"></i>Sign in With Twitter</a>        </div>

    <div class="facebook">

      <a href="#"><i class="fab fa-facebook-f"></i>Sign in With Facebook</a>

    </div>

  </div>

 </body>

</html>
```

.style22.css

```css
@import
url('https://fonts.googleapis.com/css2?family=Poppins:wght@200;300;400;500;600;700&display
=swap'
);
@import
url('https://fonts.googleapis.com/css2?family=Poppins:wght@200;300;400;500;600;700&display
=swap'
);
*{
 margin: 0; padding: 0;   box-sizing: border-

box;   font-family: 'Poppins',sans-serif;

}
```

```css
html, body{   display: grid;   height: 100vh;   width: 100%;   place-items: center;

background: linear-gradient(to right, #99004d 0%, #ff0080 100%);

}
::selection{   background: #ff80bf;


}
.container{      background: #fff;       max-width: 350px;

width: 100%;   padding: 25px 30px;   border-radius: 5px;

box-shadow: 0 10px 10px rgba(0, 0, 0, 0.15);

}
.container form .title{
 font-size: 30px;   font-weight: 600;

margin: 20px 0 10px 0;      position:

relative;

}
.container form .title:before{    content: '';   position: absolute;    height: 4px;

width: 33px;    left: 0px;    bottom: 3px;    border-radius: 5px;    background:

linear-gradient(to right, #99004d 0%, #ff0080 100%);

}
.container  form  .input-box{       width:

100%;   height: 45px;   margin-top: 25px;

position: relative;

}
.container  form  .input-box  input{      width:

100%;   height: 100%;   outline: none;

 font-size: 16px; border: none;

}
```

```css
.container form .underline::before{    content: '';

position: absolute;   height: 2px;   width: 100%;

background: #ccc;

 left: 0;
 bottom: 0;
}
.container form .underline::after{   content: '';   position: absolute;   height: 2px;

width: 100%;    background: linear-gradient(to right, #99004d 0%, #ff0080

100%);

 left: 0;
 bottom: 0;      transform: scaleX(0);

transform-origin: left;    transition: all

0.3s ease;

}
.container form .input-box input:focus ~ .underline::after, .container form

.input-box input:valid ~ .underline::after{   transform: scaleX(1);   transform-

origin: left;

}
.container form .button{   margin: 40px 0 20px

0;

}
.container .input-box input[type="submit"]{    background: linear-gradient(to

right, #99004d 0%, #ff0080 100%);   font-size: 17px;   color: #fff;   border-

radius: 5px;  cursor: pointer;   transition: all 0.3s ease;

}
.container .input-box input[type="submit"]:hover{      letter-spacing: 1px;

background: linear-gradient(to left, #99004d 0%, #ff0080 100%);

}
```
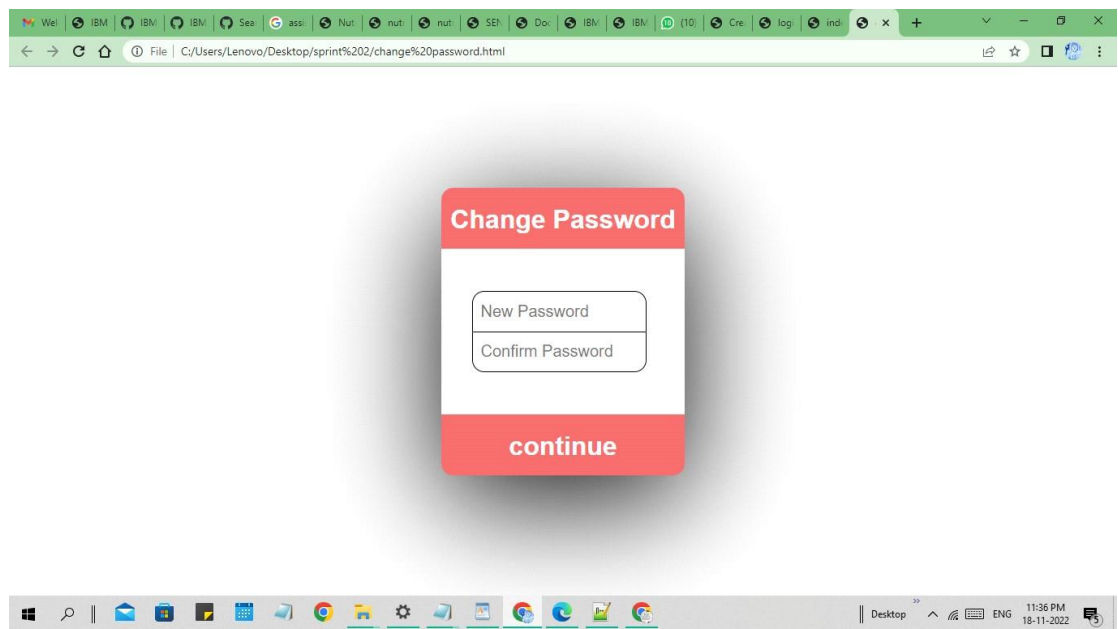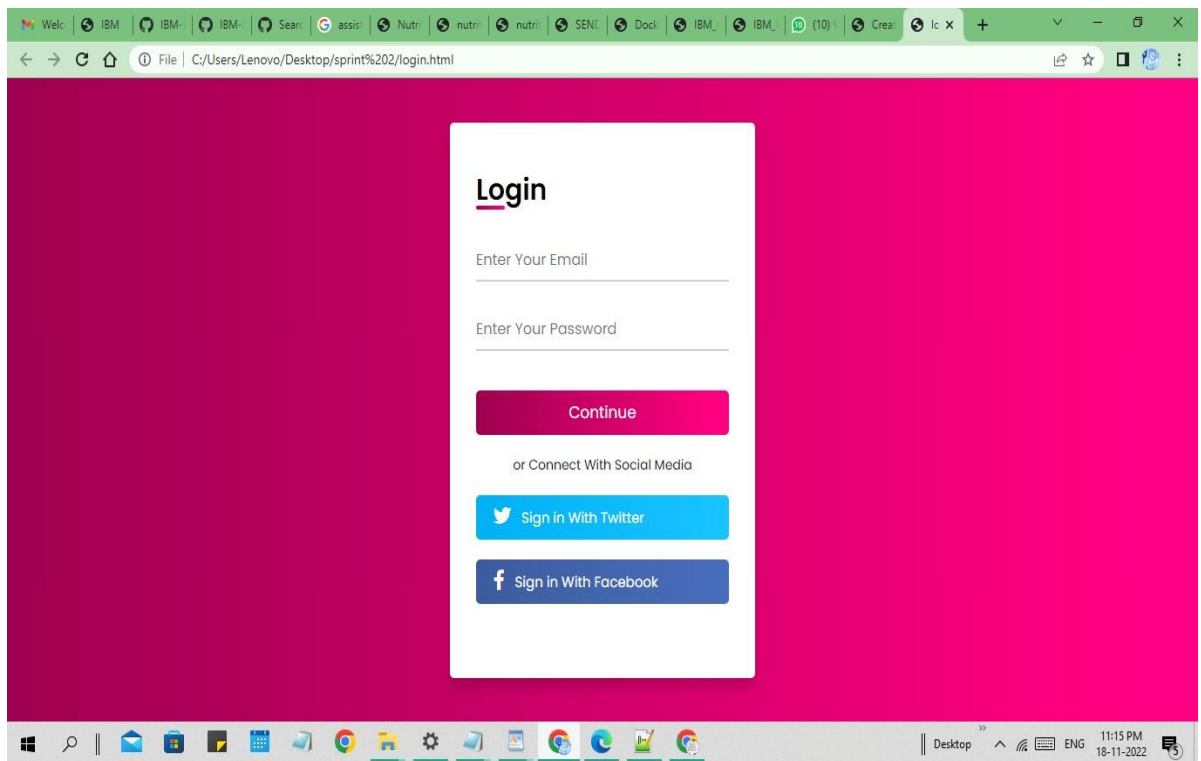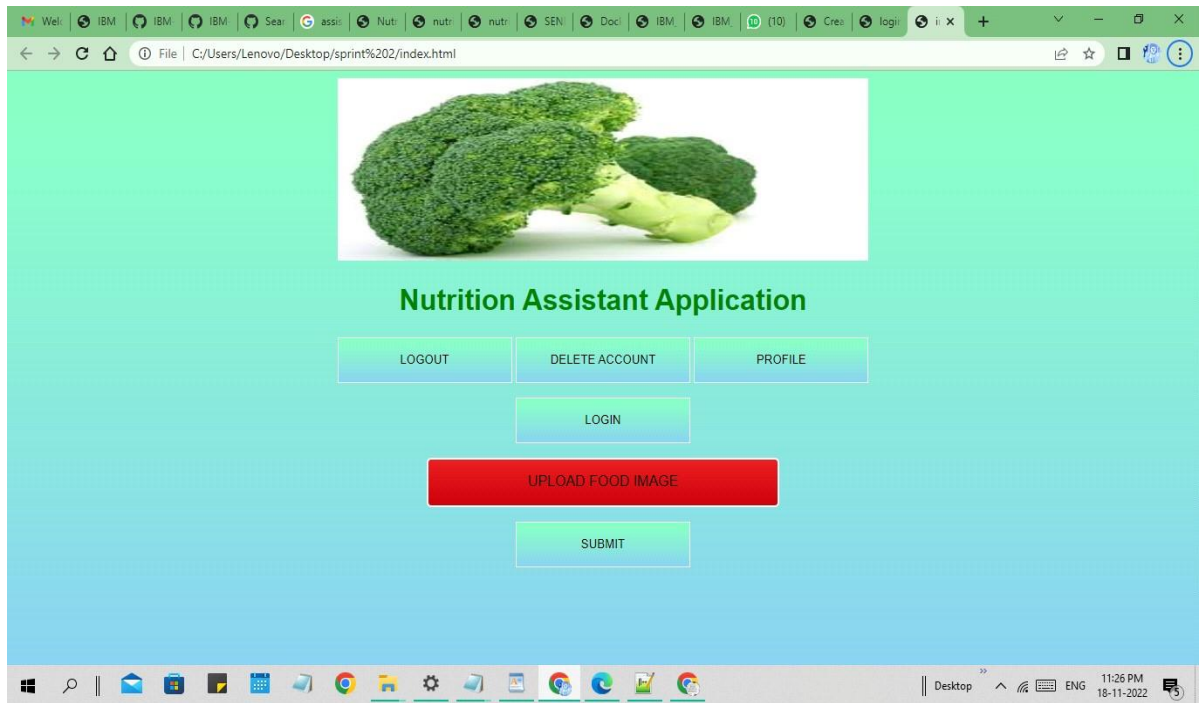
```css
.container .option{    font-size:
14px;  text-align: center;
}
.container .facebook a,
.container .twitter a{
 display: block;  height: 45px;  width:
100%;    font-size:  15px;    text-
decoration: none;  padding-left: 20px;
line-height:  45px;      color:  #fff;
border-radius: 5px;  transition: all 0.3s
ease;
}


.container .facebook i, .container
.twitter i{    padding-right: 12px;
font-size: 20px;
}
.container .twitter a{    background: linear-gradient(to right,  #00acee 0%,
#1abeff 100%);  margin: 20px 0 15px 0;
}
.container .twitter a:hover{  background: linear-gradient(to left, #00acee 0%,
#1abeff 100%);  margin: 20px 0 15px 0;
}
.container .facebook a{    background: linear-gradient( to right,  #3b5998 0%,
#476bb8 100%);  margin: 20px 0 50px 0;
}
.container .facebook a:hover{    background: linear-gradient( to left,  #3b5998
0%, #476bb8 100%);  margin: 20px 0 50px 0;
```

}

9. RESULT:

Nutrition Assistant Application

| LOGOUT | DELETE ACCOUNT | PROFILE |

LOGIN

UPLOAD FOOD IMAGE

SUBMIT

Login

Enter Your Email

Enter Your Password

Continue

or Connect With Social Media

Sign in With Twitter

Sign in With Facebook

10. ADVANTAGES & DISADVANTAGES:

1. Low Energy Consumption.

2. Works Under Low Data Connection.

3. User Friendly Web Application.

4. Data Privacy.

5. Easy to Understand.

DISADVANTAGES:

6. It cannot be Used Without Internet Connection.

7. Usage of 3rd party API may cause the time delay.

11.CONCLUSION:

Nutritional support is the provision of adequate nutrients to maintain a healthy body weight and avoid malnutrition. The continuous delivery of high-quality and cost-effective nutritional care to patients has been shown to be an increasingly difficult task.

It is observed that dieticians are requested to carry out the nutritional assessment, to manually calculate the nutritional needs and to design the everyday meal plan for each patient. In most cases, these time-consuming tasks are not completed due to lack of time or inadequate number of person.

We developed a cloud based nutrition application which detects the nutrition in food. It clarifies the calories in the food which affects our health.

12. FUTURE SCOPE :

Associations and effects of foods and nutrients on health. Dietary patterns and health. Molecular nutrition. Health claims on foods.

The scope of a study explains the extent to which the research area will be explored in the work and specifies the parameters within the study will be operating. Basically, this means that you will have to define what the study is going to cover and what it is focusing on.

Project scope is a way to set boundaries on your project and define exactly what goals, deadlines, and project deliverables you'll be working towards. By clarifying your project scope, you can ensure you hit your project goals and objectives without delay or overwork. Defining your project scope isn't a one-person job.

Future Scope is for the Undergraduates, Graduates and the Working Professionals. They may want to review or reconsider their future options and goals in terms of its suitability now; may be with a different perspective of their options in terms of time, resources, inclination etc.

You can work as a Nutritionist/Dietitian there and take control of the food intake and also the food quality consumed by the people. With a degree in food and nutrition, you can act as a Public

Health Nutritionist in non governmental organizations and play your part in spreading some good in the world.

The scope of this field is as follows: Graduates can work as a project assistant, project associate at an organization like PHFI, WHO, UNICEF, health organizations. Work as a chief nutritionist in NGO or private organizations.

13.APPENDIX:

13.1 SOURCE CODE

Source Code -   https://github.com/IBM-EPBL/IBM-Project-10208-1659113611