Project Report

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1.INTRODUCTION

1.1 Project Overview

Obesity rates are rising alarmingly quickly as a result of people's lack of knowledge about appropriate eating practices, which reflects the hazards to their health. The simplest way to prevent obesity is for people to limit their daily calorie consumption by eating healthier meals. It's still not very convenient for people to use app-based nutrient dashboard systems, even though food packaging includes nutrition (and calorie) labels. These systems can analyse real-time images of a meal and analyse it for nutritional content, which can be very handy and improve dietary habits and subsequently help with maintaining a healthy lifestyle.

By identifying the supplied food image, this project attempts to create a web application that automatically calculates food qualities like ingredients and nutritional value. Our approach uses Food APIs to provide the nutritional information of the recognised food and Clarifai's AI-Driven Food Detection Model for precise food recognition.

1.2 Purpose

Quality and the nutrients that are present in the food in an instant. Previously before starting a good diet clients had to study about the nutritional components of each of the food material and calculate the overall nutritional supplements present in an individual food before consuming it. That is too much time consuming and false knowledge in this matter Our purpose is that every food vendor and clients will be aware of the meal's can lead to having unbalanced diet which can be rather cost effective. But with this application clients can easily get to now about the nutritional components that is present in the food just by using our web application and by clicking a capture of image of the food or upload the food's picture from the galary in the module and the module will give you the nutrients that is present in that food as output.

2.LITERATURE SURVEY

2.1 Existing Problem

- The existing problem is some were using the voice assistant, By using Voice assistants, these assistants are detect the background noise abd didn't give the accurate result.
- The loading of results will appears for longer time due to the acceptance of longer content description of the meal planner.
- Some application does not gives the whole nutrition planning about the uploaded meal.

In Personalized Dietary Assistant - An Intelligent Space Application: The disadvantage
of this method lies in the complexity of the problem: at first it would seem easy to
calculate the nutritional values considering the few nutrients and minerals that are listed
on product labels, but in fact there are dozens of nutritional values that are needed to be
accounted for, and most of them are not even listed on product labels

2.2 References:

- [1] https://ieeexplore.ieee.org/document/8118575
- [2] https://ieeexplore.ieee.org/document/8320221
- [3] https://ieeexplore.ieee.org/document/9073490
- [4] https://ieeexplore.ieee.org/document/9009613

[5]

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

2.3 problem Statement Definition:

Nutrition assistant application:

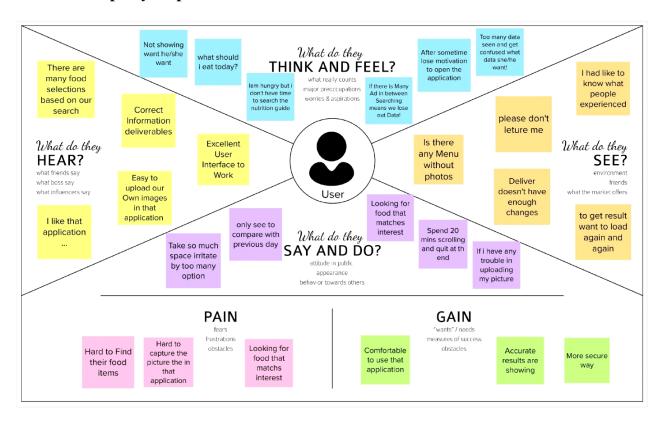




Problem Statement PS-1 I am (customer) to		I'm trying to	But	Because	Which make me feel	
PS-1	S-1 Nutrition To Assistant nu and fac		There is an issue in eating and getting proper nutrition	People do not get proper guideline to intake of food	Being over weight and anxiety and depression	
PS-2	Fitness freak	Findings a perfect preworkout plan	I can't choose a correct plan	It is confusing	A perfect daily preworkout plan suggestion	
PS-3	Student	Find a balanced nutrition diet to loss weight	There is no balanced diet available without workout	I have no time to do workout	A best nutritional based diet plan with less workout	
PS-4	Cricketer	Choose a best nutrition plan and workout to increase my stamina level	confused with many technique	I want to increase my stamina level	Perfect suggestions	
PS-5 Pregnant women Choose a yoga and healthy nutrition diet for normal pregnancy delivery		I am not familiar with yoga and diet	I don't have idea about the yoga and healthy foods	To suggest beginner based type of yoga and healthy foods		

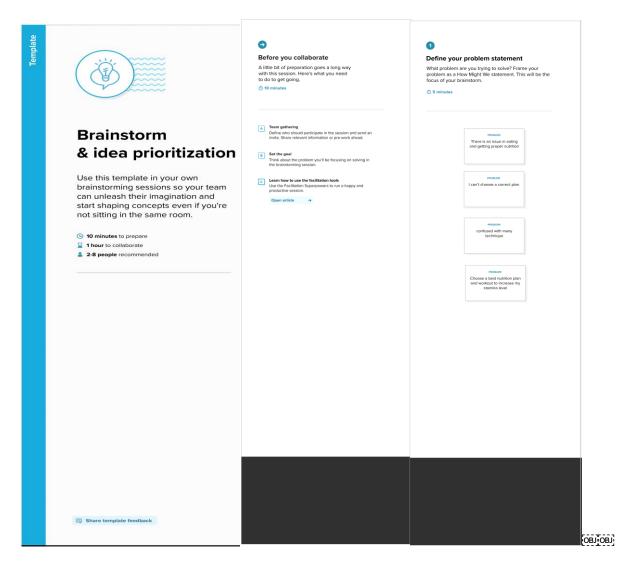
3.IDEATHON & PROPOSED SOLUTION

3.1 Empathy Map Canvas

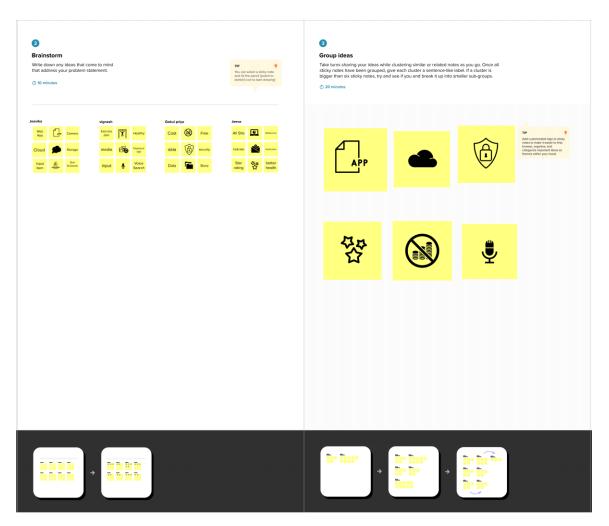


3.2 Ideation & Brainstorming

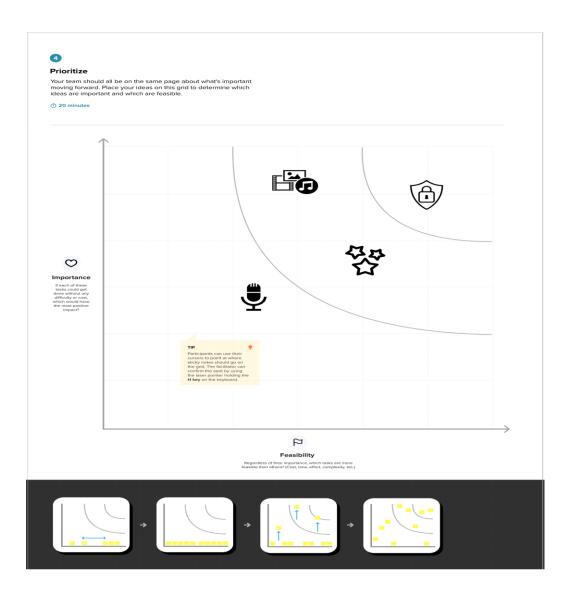
Step-1: Team Gathering, Collaboration and Select the Problem Statement:



Step-2: Brainstorm, Idea Listing and Grouping



Step-3: Idea Prioritization:



3.3 Proposed Solution

S. No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	This project aims at building a web app that automatically estimates food attributes using clarifo's AI driven food detection model
2.	Idea / Solution description	 The solution is a responsive Web application that can be used in any PC devices. The website provides a user-friendly interface and accepts multiple samples predicting them simultaneously. A detailed report of the concerned person's health will be generated.
3.	Novelty / Uniqueness	 Keep a food journal. Our method uses Clarifai's AI- driven food recognition model to accurately identify food suggestions. Water and medicine monitoring Patients to more easily monitor their caloric intake and dietary pattern to aid in weight and disease management.
4.	Social Impact / Customer Satisfaction	Calculate the basal metabolic rate, body mass index, ideal weight Nutrition focused food banking & targeted in-depth reporting reviews that paid subscriptions the best. Evaluated caloric intakes
5.	Business Model (Revenue Model)	Revenue is generated on a subscription basis, with big data processing and targeted in-depth reporting reviews that paid subscriptions the best.
6.	Scalability of the Solution	 Furthermore eminent features can be added to our application. The additional features such that sleep tracking, mensuration tracking can be done.

3.4 Problem Solution fit



4.REQUIREMENT ANALYSIS

4.1 Functional requirement

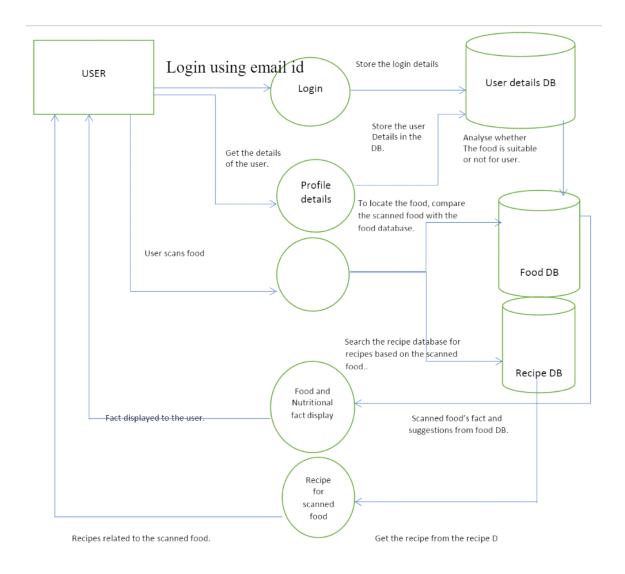
FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through E-mail and Phone number
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Profile Completion	Get personal details like height, weight, etc.
FR-4	Gather meal image	Upload photo Take live photo of the meal
FR-5	Display calorie information	Integrate Clarifai API to get name of the food Integrate Nutrition API (rapid API) to collect calorie information

4.2 Non-Functional requirement

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Provide user friendly UI
		Simple and intuitive design
NFR-2	Security	Comprehensive authorization and authentication
		scheme for each system actor
NFR-3	Reliability	The system must perform without failure in
		95 percent of use cases
NFR-4	Performance	The landing page supporting several users must
		provide 5 seconds or less response time
NFR-5	Availability	Uninterrupted services must be available all time
		except the time of server updation.

5.PROJECT DESIGN

5.1 Data Flow Diagrams



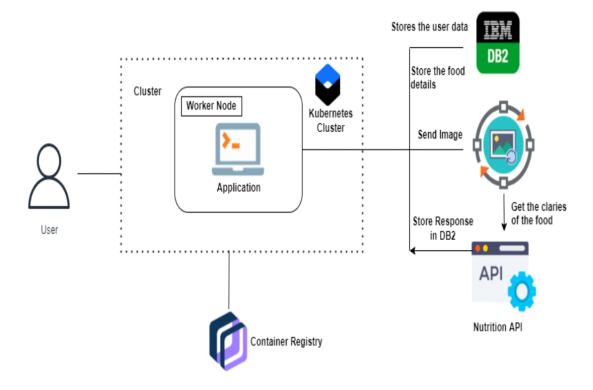
5.2 Solution & Technical Architecture

Solution Architecture:

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 analyse real-time images of a meal and analyse 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.

Solution Architecture Diagram:



5.3 User Stories

User Type	Functional	User	User Story / Task	Acceptance criteria	Priority	Release
User Type	Requirement (Epic)	Story Number				
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 lhave registered for the application	l can receive confirmation email & click confirm	High	Sprint-1
	Login	USN-3	As a user , I can upload thefood photo.	I can accessthe Dashboard and the application.	High	Sprint-1
Customer (Web 1ser)	Upload Photo	USN-4	As a user , I can fill the Details.	I can get the nutrition details.	High	Sprint-1
Administratorr	User details	USN-5	As a user. I can provide my feedback utilizing voice search	I can get whetherthe scanned food is suitable or not.	High	Sprint-2
	Push notification	USN-6	As a user, I will search the fooditems.	l can get the notification, related to my search.	High	Sprint-1
	Show the nutrition details	USN-7	As a user, I can scan the food.	I can get the nutrition details of thescanned food.	High	Sprint-1
	Recipe shown	USN-8	As a user, I want to get the recipe for the scanned food.	I can get the recipe about the food.	Low	Sprint-2

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.	13 SEPTEMBER 2022.		
Prepare Empathy Map.	Prepare Empathy Map Canvas to capture the user Pains & Gains, Prepare list of problem statements.	06 SEPTEMBER 2022.		
Ideation.	List the idea by organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility & importance.	12 SEPTEMBER 2022.		
Proposed Solution.	Prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc.	06 SEPTEMBER 2022.		
Problem Solution Fit.	Prepare problem - solutionfit document.	02 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 DiagramsDraw the data flow.	Data Flow Diagrams, draw thedata flow.	14 OCTOBER 2022.		
Technology Architecture.	Architecture diagram.	03 OCTOBER 2022.		
Prepare Milestone & Activity List.	Prepare the milestones & activity list of the project.	18 OCTOBER 2022.		
Project Development -Delivery of Sprint- 1, 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 Delivery Schedule:

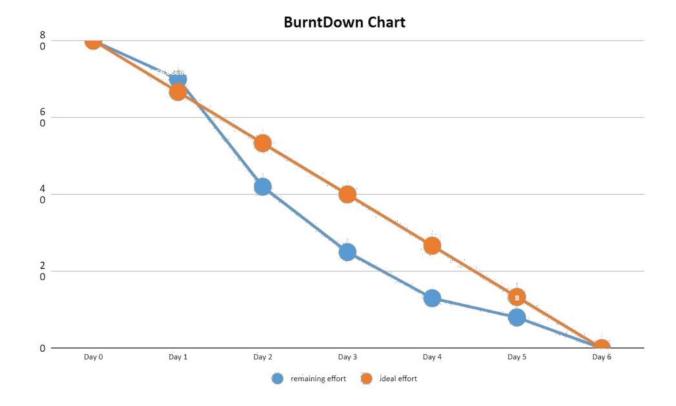
Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Jeevika J Gokulpriya D
Sprint-1		USN-2	As a user, I will receive confirmation email once	1	High	Vignesh S
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password	1	High	Jeeva K
Sprint-2		USN-4	As a user, I wish to see the website features.	1	Low	Jeevika J
Sprint-3	User details	USN-5	As a user , I can fill the Details	1	High	Jeeva k
Sprint-3	Push notification	USN-6	As a user, I want to use chatbot for asking some details	2	Medium	Jeeva K Gokulpriya D
Sprint-4		USN-7	As a user I upload a images into the web application	1	High	Jeevika J
Sprint-4	Shown the nutrition details and Recipe for scanned food	USN-8	As a user, I can scan the food and get the nutrition details and recipe for related scanned food.	1	High	Jeevika J Vignesh s

Project Tracker, Velocity & Burndown Chart

Sprint	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

6.3 Reports form IIRA



7.1 Feature 1

Signin.html

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-</pre>

 $\label{lem:cossorigin} Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi" crossorigin="anonymous">$

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-</pre>

OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3" crossorigin="anonymous"></script>

k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">

```
<tile>signin</tile>
  <link rel="stylesheet" href="style.css">
</head>
<style>
* {
 box-sizing: border-box;
}
/*body
.full{
  background-color: #9ec7f3;
}*/
.about {
 background-color: white;
}
/*slider css*/
.sliderpage {box-sizing: border-box}
body {font-family: Verdana, sans-serif; margin:0;
  height: 100%;
   width:100%;
  margin: 0;
  padding: 0;
}
.mySlides {display: none}
```

```
img {vertical-align: middle;}
/* Slideshow container */
.slideshow-container {
 max-width: 1000px;
 position: relative;
 margin: auto;
}
/* Next & previous buttons */
.prev, .next {
 cursor: pointer;
 position: absolute;
 top: 50%;
 width: auto;
 padding: 16px;
 margin-top: -22px;
 color: white;
 font-weight: bold;
 font-size: 18px;
 transition: 0.6s ease;
 border-radius: 0 3px 3px 0;
 user-select: none;
}
/* Position the "next button" to the right */
.next {
 right: 0;
```

```
border-radius: 3px 0 0 3px;
}
/* On hover, add a black background color with a little bit see-through */
.prev:hover, .next:hover {
 background-color: rgba(0,0,0,0.8);
}
/* Caption text */
.text {
 color: #f2f2f2;
 font-size: 15px;
 padding: 8px 12px;
 position: absolute;
 bottom: 8px;
 width: 100%;
 text-align: center;
}
/* Number text (1/3 etc) */
.numbertext {
 color: #f2f2f2;
 font-size: 12px;
 padding: 8px 12px;
 position: absolute;
 top: 0;
}
```

```
/* The dots/bullets/indicators */
.dot {
 cursor: pointer;
 height: 15px;
 width: 15px;
 margin: 0 2px;
 background-color: #bbb;
 border-radius: 50%;
 display: inline-block;
 transition: background-color 0.6s ease;
}
.active, .dot:hover {
 background-color: #717171;
}
/* Fading animation */
.fade {
 animation-name: fade;
 animation-duration: 1.5s;
}
@keyframes fade {
 from {opacity: .4}
 to {opacity: 1}
}
/* On smaller screens, decrease text size */
```

```
@media only screen and (max-width: 300px) {
 .prev, .next,.text {font-size: 11px}
/* Style the body */
body {
 font-family: Arial, Helvetica, sans-serif;
 margin: 0;
}
/* Header/logo Title */
.header {
 padding: 1px;
 text-align: left;
 background: #90bae7;
 color: rgb(14, 15, 96);
}
/* Increase the font size of the heading */
.header h1 {
 font-size: 40px;
}
/* Style the top navigation bar */
.navbar {
 overflow: hidden;
 background-color: rgb(219, 233, 239);
}
```

```
/* Style the navigation bar links */
.navbar a {
 float: left;
 display: block;
 color: rgb(59, 49, 49);
 text-align: center;
 padding: 14px 20px;
 text-decoration: none;
}
/* Right-aligned link */
.navbar a.right {
 float: right;
}
/* Change color on hover */
.navbar a:hover {
 background-color: #ddd;
 color: black;
}
.align a:hover {
  background-color: rgb(248, 72, 72);
  color: black;
}
.align a:active {
 background-color: rgb(248, 72, 72);
 color: black;
```

```
}
/* Column container */
.row {
 display: -ms-flexbox; /* IE10 */
 display: flex;
 -ms-flex-wrap: wrap; /* IE10 */
 flex-wrap: wrap;
 background-color:#dee9f4;
}
/* Create two unequal columns that sits next to each other */
/* Sidebar/left column */
.side {
 -ms-flex: 30%; /* IE10 */
 flex: 30%;
 background-color: #f1f1f1;
 padding: 20px;
}
/* Main column */
.main {
 -ms-flex: 70%; /* IE10 */
 flex: 70%;
 background-color: white;
 padding: 20px;
}
```

```
/* Fake image, just for this example */
.fakeimg {
 width: 100%;
 padding: 20px;
}
/* Footer */
.footer {
 padding: 20px;
 text-align: center;
 background: rgb(219, 233, 239);
}
.fa {
  padding: 20px;
  font-size: 30px;
  width: 100px;
  text-align: center;
  text-decoration: none;
  margin: 5px 2px;
 .fa:hover {
   opacity: 0.7;
 }
 .fa-facebook {
```

```
background: #3B5998;
 color: white;
}
.fa-twitter {
 background: #64dc13;
 color: white;
}
.fa-google {
 background: #39ddb7;
 color: white;
.fa-linkedin {
 background: #e84c20;
 color: white;
}
.fa-youtube {
 background: #c22fca;
 color: white;
}
.fa-instagram {
 background: #125688;
 color: white;
```

```
/* Responsive layout - when the screen is less than 700px wide, make the two columns stack on
top of each other instead of next to each other */
@media screen and (max-width: 700px) {
 .row {
  flex-direction: column;
 }
}
/* Responsive layout - when the screen is less than 400px wide, make the navigation links stack
on top of each other instead of next to each other */
@media screen and (max-width: 400px) {
 .navbar a {
  float: none;
  width: 100%;
 }
}
.column {
 float: left;
 width: 33.3%;
 margin-bottom: 16px;
 padding: 0 8px;
}
.card {
 box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2);
 margin: 8px;
}
```

```
.about-section {
 padding: 50px;
 text-align: center;
 background-color: rgb(219, 233, 239);
 color: white;
}
.container {
 padding: 0 16px;
.container::after, .row::after {
 content: "";
 clear: both;
 display: table;
}
.title {
 color: grey;
}
.button {
 border: none;
 outline: 0;
 display: inline-block;
 padding: 8px;
 color: white;
 background-color: #000;
```

```
text-align: center;
 cursor: pointer;
 width: 100%;
}
.button:hover {
 background-color: #555;
}
@media screen and (max-width: 650px) {
 .column {
  width: 100%;
  display: block;
 }
}
/*signin*/
form {border: 3px solid #f1f1f1; align:center;}
input[type=text], input[type=password] {
 width: 100%;
 padding: 12px 20px;
 margin: 8px 0;
 display: inline-block;
 border: 1px solid #ccc;
 box-sizing: border-box;
}
```

```
button {
 background-color: #04AA6D;
 color: white;
 padding: 14px 20px;
 margin: 8px 0;
 border: none;
 cursor: pointer;
 width: 100%;
button:hover {
opacity: 0.8;
}
.cancelbtn {
 width: auto;
 padding: 10px 18px;
 background-color: #f44336;
 float: left;
}
.imgcontainer {
 text-align: center;
 margin: 24px 0 12px 0;
 float: right;
```

```
}
img.avatar {
 width: 40%;
 border-radius: 50%;
}
.container {
 padding: 16px;
 align-items: center;
}
span.psw {
 float: left;
 padding-top: 16px;
 font-size:larger;
 text-decoration: solid blue 1px;
}
/* Change styles for span and cancel button on extra small screens */
@media screen and (max-width: 300px) {
 span.psw {
```

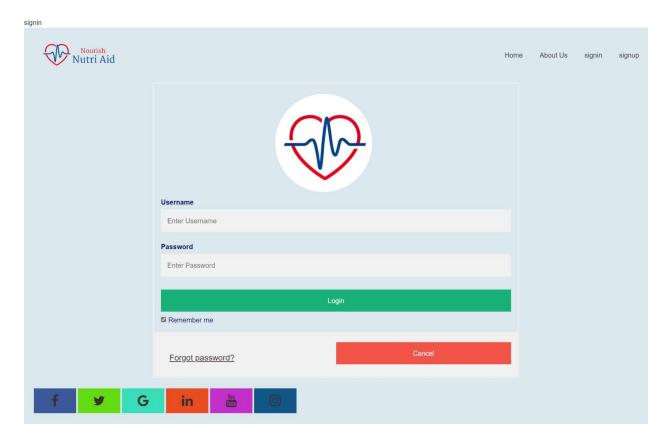
```
display: block;
  float: none;
 .cancelbtn {
  width: 100%;
.signin1 {
}
/*signuo*/
/* Full-width input fields */
input[type=text], input[type=password] {
 width: 100%;
 padding: 15px;
 margin: 5px 0 22px 0;
 display: inline-block;
 border: none;
 background: #f1f1f1;
}
input[type=text]:focus, input[type=password]:focus {
 background-color: #ddd;
 outline: none;
}
hr {
```

```
border: 1px solid #f1f1f1;
 margin-bottom: 25px;
/* Set a style for all buttons */
button {
 background-color: #04AA6D;
 color: white;
 padding: 14px 20px;
 margin: 8px 0;
 border: none;
 cursor: pointer;
 width: 100%;
 opacity: 0.9;
}
button:hover {
opacity:1;
}
/* Extra styles for the cancel button */
.cancelbtn {
 padding: 14px 20px;
 background-color: #f44336;
}
/* Float cancel and signup buttons and add an equal width */
.cancelbtn, .signupbtn {
```

```
float: right;
 width: 50%;
}
/* Add padding to container elements */
.container {
 padding: 16px;
}
/* Clear floats */
.clearfix::after {
 content: "";
 clear: both;
 display: table;
}
/* Change styles for cancel button and signup button on extra small screens */
@media screen and (max-width: 300px) {
 .cancelbtn, .signupbtn {
  width: 70%;
 }
</style>
<body class="signin1">
  <div class="header navbar" >
     <a class="navbar-brand" href="#">
       <img src="https://jeevika.s3.jp-tok.cloud-object-</pre>
storage.appdomain.cloud/Nourishaid.png" alt="..." height="100">
      </a>
```

```
<div class="align">
   <a href="/home">Home</a>
   <a href="/about">About Us</a>
   <a href="/signin">signin</a>
   <a href="/signup">signup</a>
   </div>
<form action="/home" method="get" style="margin: auto;">
 <div class="imgcontainer" style="text-align: justify;">
  <img src="https://jeevika.s3.jp-tok.cloud-object-storage.appdomain.cloud/Nutri0.png"</pre>
alt="Avatar" class="avatar" style="text-align: justify;">
 </div>
 <div class="container">
  <label for="uname" style=" inline-size: -webkit-fill-available;"><b>Username</b></label>
  <input type="text" placeholder="Enter Username" name="uname" required>
  <label for="psw"><b>Password</b></label>
  <input type="password" placeholder="Enter Password" name="psw" required>
  <button type="submit">Login</button>
  <label>
   <input type="checkbox" checked="checked" name="remember"> Remember me
  </label>
 </div>
 <div class="container" style="background-color:#f1f1f1">
```

</html>



Signup.html

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

< link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-" link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-" link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-" link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-" link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css" link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css" link href="https://cdn.jsdelivr.net/npm/bootstrap.min.css" link href="https://cdn.jsdelivr.n

Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi" crossorigin="anonymous">

 $<\!\!script\ src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-"$

OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3" crossorigin="anonymous"></script>

k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">

```
<tile>signup</tile>
    <link rel="stylesheet" href="static\css\style.css">
     <style>
* {
 box-sizing: border-box;
}
/*body
.full{
  background-color: #9ec7f3;
}*/
.about {
 background-color: white;
}
/*slider css*/
.sliderpage {box-sizing: border-box}
body {font-family: Verdana, sans-serif; margin:0;
  height: 100%;
  width:100%;
  margin: 0;
  padding: 0;
}
.mySlides {display: none}
img {vertical-align: middle;}
/* Slideshow container */
```

```
.slideshow-container {
 max-width: 1000px;
 position: relative;
 margin: auto;
}
/* Next & previous buttons */
.prev, .next {
 cursor: pointer;
 position: absolute;
 top: 50%;
 width: auto;
 padding: 16px;
 margin-top: -22px;
 color: white;
 font-weight: bold;
 font-size: 18px;
 transition: 0.6s ease;
 border-radius: 0 3px 3px 0;
 user-select: none;
}
/* Position the "next button" to the right */
.next {
 right: 0;
 border-radius: 3px 0 0 3px;
}
```

```
/* On hover, add a black background color with a little bit see-through */
.prev:hover, .next:hover {
 background-color: rgba(0,0,0,0.8);
}
/* Caption text */
.text {
 color: #f2f2f2;
 font-size: 15px;
 padding: 8px 12px;
 position: absolute;
 bottom: 8px;
 width: 100%;
 text-align: center;
}
/* Number text (1/3 etc) */
.numbertext {
 color: #f2f2f2;
 font-size: 12px;
 padding: 8px 12px;
 position: absolute;
 top: 0;
}
/* The dots/bullets/indicators */
.dot {
 cursor: pointer;
```

```
height: 15px;
 width: 15px;
 margin: 0 2px;
 background-color: #bbb;
 border-radius: 50%;
 display: inline-block;
 transition: background-color 0.6s ease;
}
.active, .dot:hover {
 background-color: #717171;
}
/* Fading animation */
.fade {
 animation-name: fade;
 animation-duration: 1.5s;
}
@keyframes fade {
 from {opacity: .4}
 to {opacity: 1}
}
/* On smaller screens, decrease text size */
@media only screen and (max-width: 300px) {
 .prev, .next,.text {font-size: 11px}
}
```

```
/* Style the body */
body {
 font-family: Arial, Helvetica, sans-serif;
 margin: 0;
}
/* Header/logo Title */
.header {
 padding: 1px;
 text-align: left;
 background: #90bae7;
 color: rgb(14, 15, 96);
}
/* Increase the font size of the heading */
.header h1 {
 font-size: 40px;
}
/* Style the top navigation bar */
.navbar {
 overflow: hidden;
 background-color: rgb(219, 233, 239);
}
/* Style the navigation bar links */
.navbar a {
 float: left;
```

```
display: block;
 color: rgb(59, 49, 49);
 text-align: center;
 padding: 14px 20px;
 text-decoration: none;
}
/* Right-aligned link */
.navbar a.right {
 float: right;
/* Change color on hover */
.navbar a:hover {
 background-color: #ddd;
 color: black;
}
.align a:hover {
  background-color: rgb(248, 72, 72);
  color: black;
.align a:active {
 background-color: rgb(248, 72, 72);
 color: black;
}
/* Column container */
```

```
.row {
 display: -ms-flexbox; /* IE10 */
 display: flex;
 -ms-flex-wrap: wrap; /* IE10 */
 flex-wrap: wrap;
 background-color:#dee9f4;
}
/* Create two unequal columns that sits next to each other */
/* Sidebar/left column */
.side {
 -ms-flex: 30%; /* IE10 */
 flex: 30%;
 background-color: #f1f1f1;
 padding: 20px;
}
/* Main column */
.main {
 -ms-flex: 70%; /* IE10 */
 flex: 70%;
 background-color: white;
 padding: 20px;
}
/* Fake image, just for this example */
.fakeimg {
```

```
width: 100%;
 padding: 20px;
/* Footer */
.footer {
 padding: 20px;
 text-align: center;
 background: rgb(219, 233, 239);
}
.fa {
  padding: 20px;
  font-size: 30px;
  width: 100px;
  text-align: center;
  text-decoration: none;
  margin: 5px 2px;
 .fa:hover {
   opacity: 0.7;
 .fa-facebook {
  background: #3B5998;
  color: white;
```

```
.fa-twitter {
  background: #64dc13;
  color: white;
 }
 .fa-google {
  background: #39ddb7;
  color: white;
 }
 .fa-linkedin {
  background: #e84c20;
  color: white;
 }
 .fa-youtube {
  background: #c22fca;
  color: white;
 .fa-instagram {
  background: #125688;
  color: white;
/* Responsive layout - when the screen is less than 700px wide, make the two columns stack on
top of each other instead of next to each other */
@media screen and (max-width: 700px) {
 .row {
```

```
flex-direction: column;
}
/* Responsive layout - when the screen is less than 400px wide, make the navigation links stack
on top of each other instead of next to each other */
@media screen and (max-width: 400px) {
 .navbar a {
  float: none;
  width: 100%;
}
.column {
 float: left;
 width: 33.3%;
 margin-bottom: 16px;
 padding: 0 8px;
}
.card {
 box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2);
 margin: 8px;
}
.about-section {
 padding: 50px;
 text-align: center;
 background-color: rgb(219, 233, 239);
```

```
color: white;
}
.container {
 padding: 0 16px;
}
.container::after, .row::after {
 content: "";
 clear: both;
 display: table;
.title {
 color: grey;
}
.button {
 border: none;
 outline: 0;
 display: inline-block;
 padding: 8px;
 color: white;
 background-color: #000;
 text-align: center;
 cursor: pointer;
 width: 100%;
}
```

```
.button:hover {
 background-color: #555;
}
@media screen and (max-width: 650px) {
 .column {
  width: 100%;
  display: block;
 }
}
/*signin*/
form {border: 3px solid #f1f1f1; align:center;}
input[type=text], input[type=password] {
 width: 100%;
 padding: 12px 20px;
 margin: 8px 0;
 display: inline-block;
 border: 1px solid #ccc;
 box-sizing: border-box;
}
button {
 background-color: #04AA6D;
 color: white;
```

```
padding: 14px 20px;
 margin: 8px 0;
 border: none;
 cursor: pointer;
 width: 100%;
}
button:hover {
 opacity: 0.8;
. cancel btn \ \{
 width: auto;
 padding: 10px 18px;
 background-color: #f44336;
 float: left;
}
.imgcontainer {
 text-align: center;
 margin: 24px 0 12px 0;
 float: right;
}
img.avatar {
```

```
width: 40%;
 border-radius: 50%;
}
.container {
 padding: 16px;
 align-items: center;
}
span.psw {
 float: left;
 padding-top: 16px;
 font-size:larger;
 text-decoration: solid blue 1px;
}
/* Change styles for span and cancel button on extra small screens */
@media screen and (max-width: 300px) {
 span.psw {
  display: block;
  float: none;
 .cancelbtn {
```

```
width: 100%;
}
.signin1 {
}
/*signuo*/
/* Full-width input fields */
input[type=text], input[type=password] {
 width: 100%;
 padding: 15px;
 margin: 5px 0 22px 0;
 display: inline-block;
 border: none;
 background: #f1f1f1;
}
input[type=text]:focus, input[type=password]:focus {
 background-color: #ddd;
 outline: none;
}
hr {
 border: 1px solid #f1f1f1;
 margin-bottom: 25px;
}
```

```
/* Set a style for all buttons */
button {
 background-color: #04AA6D;
 color: white;
 padding: 14px 20px;
 margin: 8px 0;
 border: none;
 cursor: pointer;
 width: 100%;
 opacity: 0.9;
}
button:hover {
 opacity:1;
}
/* Extra styles for the cancel button */
.cancelbtn {
 padding: 14px 20px;
 background-color: #f44336;
}
/* Float cancel and signup buttons and add an equal width */
.cancelbtn, .signupbtn {
 float: right;
 width: 50%;
}
```

```
/* Add padding to container elements */
.container {
 padding: 16px;
}
/* Clear floats */
.clearfix::after {
 content: "";
 clear: both;
 display: table;
/* Change styles for cancel button and signup button on extra small screens */
@media screen and (max-width: 300px) {
 .cancelbtn, .signupbtn {
  width: 70%;
 }
}
    </style>
  </head>
  <style>
   input[type=text], input[type=password] {
 width: 100%;
 padding: 15px;
 margin: 5px 0 22px 0;
 display: inline-block;
 border: none;
 background: #f1f1f1;
```

```
}
input[type=text]:focus, input[type=password]:focus {
 background-color: #ddd;
 outline: none;
}
hr {
 border: 1px solid #f1f1f1;
 margin-bottom: 25px;
}
/* Set a style for all buttons */
button {
 background-color: #04AA6D;
 color: white;
 padding: 14px 20px;
 margin: 8px 0;
 border: none;
 cursor: pointer;
 width: 100%;
 opacity: 0.9;
}
button:hover {
opacity:1;
}
```

```
/* Extra styles for the cancel button */
.cancelbtn {
 padding: 14px 20px;
 background-color: #f44336;
}
/* Float cancel and signup buttons and add an equal width */
.cancelbtn, .signupbtn {
 float: left;
 width: 50%;
}
/* Add padding to container elements */
.container {
 padding: 16px;
}
/* Clear floats */
.clearfix::after {
 content: "";
 clear: both;
 display: table;
}
/* Change styles for cancel button and signup button on extra small screens */
@media screen and (max-width: 300px) {
 .cancelbtn, .signupbtn {
  width: 100%;
```

```
}
  </style>
  <body>
     <div class="header navbar" >
       <a class="navbar-brand" href="#">
         <img src="https://jeevika.s3.jp-tok.cloud-object-</pre>
storage.appdomain.cloud/Nourishaid.png" alt="..." height="100">
        </a>
      <div class="align">
      <a href="/home">Home</a>
      <a href="/about">About Us</a>
      <a href="/signin">signin</a>
      <a href="./signup">signup</a>
      <a href="upload_image.html"><i>Upload image</i></a>
      </div>
      <form action="{{ url_for('value_insert')}}" method = "POST" style="margin: auto;">
       <div class="container">
        Please fill in this form to create an account.
        <hr>>
        <label for="email"><b>Email</b></label>
```

```
<input type="text" placeholder="Enter Email" name="Email" required>
        <label for="psw"><b>Password</b></label>
        <input type="password" placeholder="Enter Password" name="password" required>
        <label for="psw-repeat"><b>Repeat Password</b></label>
        <input type="password" placeholder="Repeat Password" name="rpassword" required>
        <label>
         <input type="checkbox" checked="checked" name="remember" style="margin-</pre>
bottom:15px"> Remember me
        </label>
        <div class="clearfix">
         <button type="button" class="cancelbtn">Cancel</button>
         <button type="submit" class="signupbtn">Sign Up</button>
        </div>
       </div>
      </form>
    <div class="footer">
       <a href="#" class="fa fa-facebook"></a>
      <a href="#" class="fa fa-twitter"></a>
      <a href="#" class="fa fa-google"></a>
      <a href="#" class="fa fa-linkedin"></a>
     <a href="#" class="fa fa-youtube"></a>
```

```
<a href="#" class="fa fa-instagram"></a>
</div>
</body>
</html>
```



7.2 Feature 2

```
background-color: gray;
}
h2 {
  background-color: #8f405c;
  height:80px;
  font-size: 75px;
}
input{
  background-color: #420e58;
  border: none;
  color: white;
  padding: 15px 32px;
  text-align: center;
  text-decoration: none;
  display: inline-block;
  font-size: 16px;
  border-radius: 12px;
  margin-left: 60px;
 margin-top: -30px;
img\{
  border: 2px solid red;
  margin-top: -500px;
  margin-left: 10px;
```

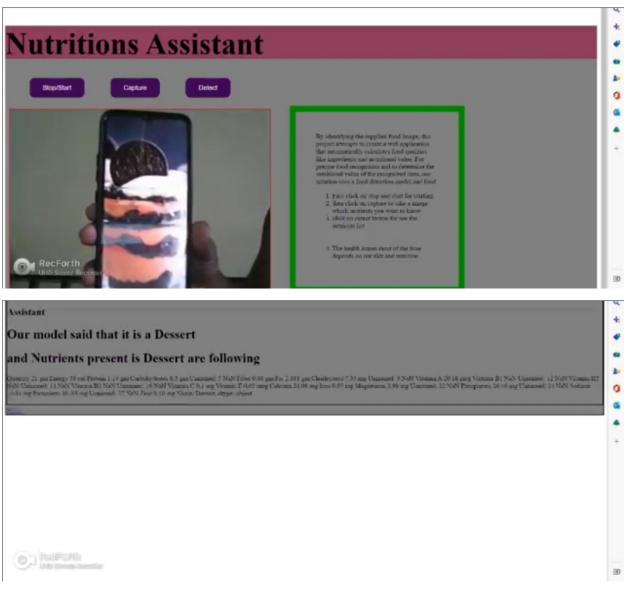
```
}
     .about{
       width: 300px;
      border: 15px solid green;
      padding: 50px;
      margin: 20px;
      margin-left:700px;
     }
  </style>
</head>
<body>
  <div class="container">
     <div class="row">
       <div class="col-lg-8 offset-lg-2">
         <h2 class="mt-5">Nutritions Assistant</h2>
         <div id="myform">
            <form method="post" action="{{ url_for('tasks') }}">
              <input type="submit" value="Stop/Start" name="stop" />
              <input type="submit" value="Capture" name="click" />
              <input type="submit" value="Detect" name="detect" />
            </form>
         </div>
         <div class="about">By identifying the supplied food image, this project attempts to
create a web application that automatically calculates food qualities like ingredients and
```

nutritional value. For precise food recognition and to determine the nutritional value of the recognized item, our solution uses a food detection model and food <APIs class="br">

```
<ol>
             First click on stop and start for starting 
             then click on capture to take a image which nutrients you want to know 
             click on detect button for see the nutrients list
             <br>
             <br>>
             The health issues most of the time depends on our diet and nutrition
            </APIs></div>
        <img src="{{ url_for('video_feed') }}" height="50%">
      </div>
    </div>
  </div>
</body>
</html>
Predict.html
<!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>Document</title>
 <style>
   . container \{\\
      border:2px solid black;
      background-color: gray;
    }
 </style>
</head>
<body>
 <div class="container">
    <div class="row">
      <div class="col-lg-8 offset-lg-2">
         <div class="container">
        <h2 class="mt-5"> Assistant</h2>
         <h1>Our model said that it is a {{name}}</h1>
         <h1>and Nutrients present is {{name}} are following</h1>
          { \{ data \} } 
         </div>
         </div>
```

```
<a href="http://127.0.0.1:5000/">Home</a>
</div>
</div>
</body>
</html>
```



8.TESTING

8.1 Test Class

1									
			NFT - Risk Assessment						
S.No	Project Name	Scope/feature	unctional Change	Hardware Changes	Software Changes	Impact of Downtime	Load/Volume Changes	Risk Score	Justification
1	utrition Assistant Applicati	New	Moderate	Low	Moderate	Hardware specification is our Down	>10 to 30%	ORANGE	We alter Our hardware device 5 time:
			NFT - Detailed Test Plan						
			S.No	Project Overview	NFT Test approach	sumptions/Dependencies/Ri	Approvals/SignOff		
			1 Nutrition Assistant Application Performance and usability if App Crash/Developer Team/server Approved						
			End Of Test Report						
							Identified Defects		
S.No	Project Overview	NFT Test approach	NFR - Met	Test Outcome	GO/NO-GO decision	Recommendations	(Detected/Closed/Open)	Approvals/SignOff	
1	Nutrition Assistant Applic	Stress	Performance	DB Storage, Web Application	GO Decision	High Performance Cloud Server	Closed	Approved	

8.2 User Acceptance Testing

1. PurposeofDocument

The purpose of this document is to briefly explain the test coverage and open issues of the Nutrition Assistant Application project at the time of the release to User Acceptance Testing (UAT).

2. DefectAnalysis

Thisreportshowsthenumberofresolvedor closed bugs at each severity level, and how they were resolved

Resolution	Severity1	Severity2	Severity3	Severity4	Subtotal
By Design	10	4	2	3	20
Duplicate	1	0	3	0	4
External	2	3	0	1	6
Fixed	11	2	4	20	37
Not Reproduced	0	0	1	0	1
Skipped	0	0	1	1	2
Won'tFix	0	5	2	1	8
Totals	24	14	13	26	77

3. TestCaseAnalysis

Thisreportshowsthenumberoftestcasesthathavepassed,failed,anduntested

Section	TotalCases	Not Tested	Fail	Pass
PrintEngine	7	0	0	7
ClientApplication	51	0	0	51
Security	2	0	0	2
OutsourceShipping	3	0	0	3
ExceptionReporting	9	0	0	9
FinalReportOutput	4	0	0	4
VersionControl	2	0	0	2

9.RESULTS

9.1 Performance Metrics

There are a few key performance metrices that are important to track for a nutrition assistance application. These metrices include:

- 1. User satisfaction: This can be tracked through surveys or interviews with users of the application. It is important to track how satisfied users are with the application in order to gauge its success.
- 2. Engagement: This can be tracked by looking at how often users use the application and how long they use it for. This will give insight into how useful the application is for users.
- 3. Nutrition knowledge: This can be tracked by administering pre and post tests to users of the application. This will show how much users have learned about nutrition through using the application.
- 4. Healthy eating habits: This can be tracked by looking at users' dietary records before and after using the application. This will show whether the application has helped users to develop healthier eating habits.

10. ADVANTAGES & DISADVANTAGES

Advantage:

- By Using our Nourish Nutri Aid all the users will See their nutritional status in real time images.
- They can Scan their food and upload then get their results.
- Additionally they can also see their Exercise plan

Disadvantage:

The disadvantage of our project is the user will also see the voice assistant, it will be recover in future.

11. CONCLUSION

Good nutrition promotes not only better physical health and reduced susceptibility to disease, but has also been demonstrated to contribute to cognitive development and academic success. By using our nutria Assistant application all should see the 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

12. FUTURE SCOPE

The future scope of this is even a child can analyze their nutrition value and their diet maintains by scan their food.

13. APPENDIX

```
Source Code
Python Code:
App.py
from flask import Flask, render_template, Response, request, redirect, url_for
import cv2
import ibm_db
import datetime, time
import os, sys
import numpy as np
from threading import Thread
## csv code
import pandas as pd
read_file = pd.read_excel ("Book.xlsx")
read_file.to_csv ("Test.csv",
          index = None,
          header=True)
```

df = pd.DataFrame(pd.read_csv("Test.csv"))

```
df.to_csv("Test.csv")
df=df.set_index("Food Name")
def Nutrients(Name):
  name=Name
  return(df.loc[(name),:])
##
global capture, rec_frame, grey, switch, neg, face, rec, out, p,d
capture=0
grey=0
neg=0
face=0
switch=1
rec=0
# ML
import keras
import cv2
import tensorflow as tf
#import PIL.Image
#from tensorflow.keras.utils import to_categorical
#from tensorflow.keras.preprocessing.image import load_img, img_to_array
from keras_preprocessing.image import load_img,img_to_array
#from tensorflow.python.keras.preprocessing.image import ImageDataGenerator
#from keras.preprocessing.image import ImageDataGenerator
#import tensorflow.compat.v2 as tf
from keras.models import load_model
model = keras.models.load_model('Daiyan.h5')
import numpy as np
##
```

```
import numpy as np
CATEGORIES = ['Vegetable-Fruit', 'Egg', 'Bread', 'Soup', 'Seafood', 'Meat', 'vada pav', 'Fried
food', 'pizza', 'Dessert', 'Dairy product', 'Rice', 'burger', 'Noodles-Pasta']
def image(path):
  img = cv2.imread(path, cv2.IMREAD_GRAYSCALE)
  new_arr = cv2.resize(img, (60, 60))
  new_arr = np.array(new_arr)
  new_arr = new_arr.reshape(-1, 60, 60, 1)
  return new_arr
#make shots directory to save pics
try:
  os.mkdir('./shots')
except OSError as error:
  pass
#instatiate flask app
app = Flask(__name__, template_folder='./templates')
camera = cv2.VideoCapture(0)
# def Path(d):
    a=d
    return a
@app.route('/')
def home():
  return render_template("home.html")
@app.route('/signup')
def signup():
  return render_template("signup.html")
@app.route('/value_insert', methods = ['GET', 'POST'])
```

```
def value_insert():
  Email = request.form['Email']
  password = request.form['password']
  rpassword = request.form['rpassword']
  insert_sql = "INSERT INTO signup VALUES (?,?,?)"
  prep_stmt = ibm_db.prepare(conn, insert_sql)
  ibm_db.bind_param(prep_stmt, 1, Email)
  ibm_db.bind_param(prep_stmt, 2, password)
  ibm_db.bind_param(prep_stmt, 3, rpassword)
  ibm_db.execute(prep_stmt)
  return render_template('signup.html')
@app.route('/signin')
def signin():
    return render_template("signin.html")
def gen_frames(): # generate frame by frame from camera
  global out, capture, rec_frame, d
  while True:
    success, frame = camera.read()
    if success:
       if(capture):
         capture=0
         now = datetime.datetime.now()
         p = os.path.sep.join(['shots', "shot_{}.png".format(str(now).replace(":","))])
         \#d=("C:\Users\anish\Desktop\IBM2\"+p)
```

```
cv2.imwrite(p, frame)
         d=p
       try:
         ret, buffer = cv2.imencode('.jpg', cv2.flip(frame,1))
         frame = buffer.tobytes()
         yield (b'--frame\r\
              b'Content-Type: image/jpeg/r/n/r/n' + frame + b'/r/n'
       except Exception as e:
         pass
     else:
       pass
@app.route('/index')
def index():
  return render_template('index.html')
@app.route('/uplod')
def uplod():
  return render_template('index.html')
@app.route('/video_feed')
def video_feed():
  return Response(gen_frames(), mimetype='multipart/x-mixed-replace; boundary=frame')
```

```
@app.route('/requests',methods=['POST','GET'])
def tasks():
  global switch, camera
  if request.method == 'POST':
    if request.form.get('click') == 'Capture':
       global capture
       capture=1
    elif request.form.get('detect') == 'Detect':
       # prediction = model.predict([image("C:\\Users\\anish\\Desktop\\IBM2\\download.jfif")])
       path = os.getcwd()
       print(d)
       p=os.path.join(path, "", d)
       prediction = model.predict([image(p)])
       name=(CATEGORIES[prediction.argmax()])
       Product_name=name
       data=Nutrients(Product_name)
       return render_template('Predect.html',name=name,data=data)
     elif request.form.get('stop') == 'Stop/Start':
       if(switch==1):
         switch=0
         camera.release()
         cv2.destroyAllWindows()
```

```
else:
         camera = cv2.VideoCapture(0)
         switch=1
  elif request.method=='GET':
    return render_template('index.html')
  return render_template('index.html')
if __name__ == '__main__':
  app.run()
camera.release()
cv2.destroyAllWindows()
home.html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  k href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi"
crossorigin="anonymous">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min.js"</pre>
integrity="sha384-
OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>
```

```
k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">
  <title>Home</title>
  <link rel="stylesheet" href="style.css">
</head>
<style>
* {
 box-sizing: border-box;
}
/*body
.full{
  background-color: #9ec7f3;
}*/
.about {
 background-color: white;
}
/*slider css*/
.sliderpage {box-sizing: border-box}
body {font-family: Verdana, sans-serif; margin:0;
  height: 100%;
   width:100%;
  margin: 0;
  padding: 0;
```

```
.mySlides {display: none}
img {vertical-align: middle;}
/* Slideshow container */
.slideshow-container {
 max-width: 1000px;
 position: relative;
 margin: auto;
}
/* Next & previous buttons */
.prev, .next {
 cursor: pointer;
 position: absolute;
 top: 50%;
 width: auto;
 padding: 16px;
 margin-top: -22px;
 color: white;
 font-weight: bold;
 font-size: 18px;
 transition: 0.6s ease;
 border-radius: 0 3px 3px 0;
 user-select: none;
}
/* Position the "next button" to the right */
.next {
```

```
right: 0;
 border-radius: 3px 0 0 3px;
}
/* On hover, add a black background color with a little bit see-through */
.prev:hover, .next:hover {
 background-color: rgba(0,0,0,0.8);
}
/* Caption text */
.text {
 color: #f2f2f2;
 font-size: 15px;
 padding: 8px 12px;
 position: absolute;
 bottom: 8px;
 width: 100%;
 text-align: center;
}
/* Number text (1/3 etc) */
.number text\ \{
 color: #f2f2f2;
 font-size: 12px;
 padding: 8px 12px;
 position: absolute;
 top: 0;
}
```

```
/* The dots/bullets/indicators */
.dot {
 cursor: pointer;
 height: 15px;
 width: 15px;
 margin: 0 2px;
 background-color: #bbb;
 border-radius: 50%;
 display: inline-block;
 transition: background-color 0.6s ease;
}
.active, .dot:hover {
 background-color: #717171;
}
/* Fading animation */
.fade {
 animation-name: fade;
 animation-duration: 1.5s;
}
@keyframes fade {
 from {opacity: .4}
 to {opacity: 1}
}
```

```
/* On smaller screens, decrease text size */
@media only screen and (max-width: 300px) {
 .prev, .next,.text {font-size: 11px}
/* Style the body */
body {
 font-family: Arial, Helvetica, sans-serif;
 margin: 0;
}
/* Header/logo Title */
.header {
 padding: 1px;
 text-align: left;
 background: #90bae7;
 color: rgb(14, 15, 96);
}
/* Increase the font size of the heading */
.header h1 {
 font-size: 40px;
/* Style the top navigation bar */
.navbar {
 overflow: hidden;
 background-color: rgb(219, 233, 239);
}
```

```
/* Style the navigation bar links */
.navbar a {
 float: left;
 display: block;
 color: rgb(59, 49, 49);
 text-align: center;
 padding: 14px 20px;
 text-decoration: none;
}
/* Right-aligned link */
.navbar a.right {
 float: right;
}
/* Change color on hover */
.navbar a:hover {
 background-color: #ddd;
 color: black;
}
.align a:hover {
  background-color: rgb(248, 72, 72);
  color: black;
}
.align a:active {
 background-color: rgb(248, 72, 72);
```

```
color: black;
}
/* Column container */
.row {
 display: -ms-flexbox; /* IE10 */
 display: flex;
 -ms-flex-wrap: wrap; /* IE10 */
 flex-wrap: wrap;
 background-color:#dee9f4;
}
/* Create two unequal columns that sits next to each other */
/* Sidebar/left column */
.side {
 -ms-flex: 30%; /* IE10 */
 flex: 30%;
 background-color: #f1f1f1;
 padding: 20px;
}
/* Main column */
.main {
 -ms-flex: 70%; /* IE10 */
 flex: 70%;
 background-color: white;
 padding: 20px;
}
```

```
/* Fake image, just for this example */
.fakeimg {
 width: 100%;
 padding: 20px;
/* Footer */
.footer {
 padding: 20px;
 text-align: center;
 background: rgb(219, 233, 239);
}
.fa {
  padding: 20px;
  font-size: 30px;
  width: 100px;
  text-align: center;
  text-decoration: none;
  margin: 5px 2px;
 }
 .fa:hover {
   opacity: 0.7;
 }
```

```
.fa-facebook {
 background: #3B5998;
 color: white;
}
.fa-twitter {
 background: #64dc13;
 color: white;
}
.fa-google {
 background: #39ddb7;
 color: white;
.fa-linkedin {
 background: #e84c20;
 color: white;
}
.fa-youtube {
 background: #c22fca;
 color: white;
.fa-instagram {
 background: #125688;
 color: white;
```

```
/* Responsive layout - when the screen is less than 700px wide, make the two columns stack on
top of each other instead of next to each other */
@media screen and (max-width: 700px) {
 .row {
  flex-direction: column;
 }
}
/* Responsive layout - when the screen is less than 400px wide, make the navigation links stack
on top of each other instead of next to each other */
@media screen and (max-width: 400px) {
 .navbar a {
  float: none;
  width: 100%;
 }
}
.column {
 float: left;
 width: 33.3%;
 margin-bottom: 16px;
 padding: 0 8px;
.card {
 box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2);
 margin: 8px;
```

```
.about-section {
 padding: 50px;
 text-align: center;
 background-color: rgb(219, 233, 239);
 color: white;
.container {
 padding: 0 16px;
}
.container::after, .row::after {
 content: "";
 clear: both;
 display: table;
}
.title {
 color: grey;
}
.button {
 border: none;
 outline: 0;
 display: inline-block;
 padding: 8px;
 color: white;
```

```
background-color: #000;
 text-align: center;
 cursor: pointer;
 width: 100%;
}
.button:hover {
 background-color: #555;
}
@media screen and (max-width: 650px) {
 .column {
  width: 100%;
  display: block;
 }
}
/*signin*/
form {border: 3px solid #f1f1f1; align:center;}
input[type=text], input[type=password] {
 width: 100%;
 padding: 12px 20px;
 margin: 8px 0;
 display: inline-block;
 border: 1px solid #ccc;
 box-sizing: border-box;
```

```
}
button {
 background-color: #04AA6D;
 color: white;
 padding: 14px 20px;
 margin: 8px 0;
 border: none;
 cursor: pointer;
 width: 100%;
}
button:hover {
opacity: 0.8;
}
.cancelbtn {
 width: auto;
 padding: 10px 18px;
 background-color: #f44336;
 float: left;
}
.imgcontainer {
 text-align: center;
 margin: 24px 0 12px 0;
```

```
float: right;
}
img.avatar {
 width: 40%;
 border-radius: 50%;
}
.container {
 padding: 16px;
 align-items: center;
}
span.psw {
 float: left;
 padding-top: 16px;
 font-size:larger;
 text-decoration: solid blue 1px;
}
/* Change styles for span and cancel button on extra small screens */
@media screen and (max-width: 300px) {
 span.psw {
  display: block;
  float: none;
 .cancelbtn {
```

```
width: 100%;
}
.signin1 {
}
/*signuo*/
/* Full-width input fields */
input[type=text], input[type=password] {
 width: 100%;
 padding: 15px;
 margin: 5px 0 22px 0;
 display: inline-block;
 border: none;
 background: #f1f1f1;
}
input[type=text]:focus, input[type=password]:focus {
 background-color: #ddd;
 outline: none;
}
hr {
 border: 1px solid #f1f1f1;
 margin-bottom: 25px;
}
```

```
/* Set a style for all buttons */
button {
 background-color: #04AA6D;
 color: white;
 padding: 14px 20px;
 margin: 8px 0;
 border: none;
 cursor: pointer;
 width: 100%;
 opacity: 0.9;
}
button:hover {
 opacity:1;
}
/* Extra styles for the cancel button */
.cancelbtn {
 padding: 14px 20px;
 background-color: #f44336;
}
/* Float cancel and signup buttons and add an equal width */
.cancelbtn, .signupbtn {
 float: right;
 width: 50%;
}
```

```
/* Add padding to container elements */
.container {
 padding: 16px;
}
/* Clear floats */
.clearfix::after {
 content: "";
 clear: both;
 display: table;
/* Change styles for cancel button and signup button on extra small screens */
@media screen and (max-width: 300px) {
 .cancelbtn, .signupbtn {
   width: 70%;
</style>
<body class="full">
<div class="header navbar" >
  <a class="navbar-brand" href="#">
     <img src="https://jeevika.s3.jp-tok.cloud-object-storage.appdomain.cloud/Nourishaid.png"</pre>
alt="..." height="100">
```

```
</a>
 <div class="align">
 <a href="/templates/home.html">Home</a>
 <a href="\about">About Us</a>
 <a href="/templates/signin">signin</a>
 <a href="\signup">signup</a>
 </div>
</div>
<div class="sliderpage" >
 <div class="slideshow-container">
 <div class="mySlides fade">
  <div class="numbertext">2 / 3</div>
  <img src="https://jeevika.s3.jp-tok.cloud-object-storage.appdomain.cloud/nutri6.jpg"</pre>
style="width:100%">
 </div>
 <div class="mySlides fade">
  <div class="numbertext">3 / 3</div>
  <img src="https://jeevika.s3.jp-tok.cloud-object-storage.appdomain.cloud/nutri5.jpg"</pre>
style="width:100%">
```

```
</div>
</div>
</div>
<br>>
<div style="text-align:center">
 <span class="dot"></span>
 <span class="dot"></span>
 <span class="dot"></span>
 <span class="dot"></span>
</div>
<script>
let slideIndex = 0;
showSlides();
function showSlides() {
 let i;
 let slides = document.getElementsByClassName("mySlides");
 let dots = document.getElementsByClassName("dot");
 for (i = 0; i < slides.length; i++) {
  slides[i].style.display = "none";
 }
 slideIndex++;
```

```
if (slideIndex > slides.length) {slideIndex = 1}
for (i = 0; i < dots.length; i++) {
   dots[i].className = dots[i].className.replace(" active", "");
}
slides[slideIndex-1].style.display = "block";
dots[slideIndex-1].className += " active";
setTimeout(showSlides, 1000); // Change image every 2 seconds
}
</script>
</div>
```

We have always heard the word 'health' and 'fitness'. We use it ourselves when we say phrases like 'health is wealth' and 'fitness is the key'. What does the word health really mean? It implies the idea of 'being well'. We call a person healthy and fit when he/she function well physically as well as mentally.

```
<br>
```

Factors Affecting our Health and Fitness

Good health and fitness is not something which one can achieve entirely on our own. It depends on their physical environment and the quality of food intake. We live in villages, towns, and cities.

In such places, even our physical environment affects our health. Therefore, our social responsibility of pollution-free environment directly affects our health. Our day-to-day habits also determine our fitness level. The quality of food, air, water all helps in building our fitness level.

Role of Nutritious Diet on our Health and Fitness

The first thing about where fitness starts is food. We should take nutritious food. Food rich in protein, vitamins, minerals, and carbohydrates is very essential. Protein is necessary for body

growth. Carbohydrates provide the required energy in performing various tasks. Vitamin and minerals help in building bones and boosting our immune system.

However, taking food in uneven quantity is not good for the body. Taking essential nutrients in adequate amount is called a balanced diet. Taking a balanced diet keep body and mind strong and healthy. Good food helps in better sleep, proper brain functioning and healthy body weight.

Include vegetables, fruits, and pulses in daily diet. One must have a three-course meal. Having roughage helps in cleaning inner body organs. Healthy food habit prevents various diseases. Reducing the amount of fat in the diet prevents cholesterol and heart diseases.

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Impact of Exercise on our Health

Routine exercise helps improve our muscle power. Exercise helps in good oxygen supply and blood flow throughout the body. Heart and lungs work efficiently. Our bones get strong and joints have the pain free movement.

We should daily spend at least twenty minutes in our exercise. Daily morning walk improves our fitness level. We should avoid strenuous Gym activities. Exercise burns our fat and controls the cholesterol level in the body. Various outdoor games like cricket, football, volleyball, etc keeps our body fit. Regular exercise maintains our body shape.

```
</div>
</div>
<script>
window.watsonAssistantChatOptions = {
  integrationID: "41973ae4-7b71-4271-8c25-b2aa6135ccb7", // The ID of this integration.
  region: "jp-tok", // The region your integration is hosted in.
  serviceInstanceID: "460a9ce0-51f9-43bb-bd98-a4571c6903e8", // The ID of your service instance.
  onLoad: function(instance) { instance.render(); }
```

```
};
 setTimeout(function(){
  const t=document.createElement('script');
  t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion || 'latest') + "/WatsonAssistantChatEntry.js";
  document.head.appendChild(t);
 });
</script>
<div class="footer">
 <a href="#" class="fa fa-facebook"></a>
<a href="#" class="fa fa-twitter"></a>
<a href="#" class="fa fa-google"></a>
<a href="#" class="fa fa-linkedin"></a>
<a href="#" class="fa fa-youtube"></a>
<a href="#" class="fa fa-instagram"></a>
</div>
</body>
</html>
Dockerfile
FROM python:3.9.15-slim
Add . /build
WORKDIR /build
RUN pip install -r requirements.txt
RUN pip install opency-python
CMD ["python", "app.py"]
```

GitHub & Project Demo Link

Github link:

https://github.com/IBM-EPBL/IBM-Project-42643-1660673099

Project Deno Link

https://drive.google.com/file/d/1QSluDkD5licvlbTT8Sfo0kgjmyRhLWcl/view?usp=sharing