NUTRITION ASSISTANT APPLICATION

A PROJECT REPORT

Submitted by

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NUTRITION ASSISTANT APPLICATION

1.INTRODUCTION:

Due to the ignorance of healthy food habits, obesity rates are increasing at and 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.We will explain what process as taken place for the selection of best model and building necessary system for prescribing good nutrition content food.

1.1 PROJECT OVERVIEW

Evaluation of nutritional status is critical, either to identify if an individual has nutritional imbalance due to an underlying condition or to assess if an individual is likely to develop a pathological condition due to nutritional imbalance. A detailed, systematic evaluation of a patient's nutritional status conducted by healthcare providers in a team-based setting to diagnose malnutrition and identify underlying pathologies to plan intervention constitutes nutritional assessment. This article provides an overview of nutritional evaluation, including components of nutritional assessment, factors that affect nutritional status, and the role of interprofessional teams involved in managing patients at nutritional risks.

1.2 PURPOSE

The Main puropose of the Nutrition Assistant Application is to
1. Explain the significance of nutritional assessment and summarize its components.
2. Identify factors that affect the nutritional status of individuals.
3. Describe challenges involved in nutritional assessment.

4. Summarize the role of interprofessional collaboration in performing the nutritional assessment of patients

2.LITERATURE SURVEY:
2.1 EXISTING PROBLEM

S.No	Title	Methodologies	Advantages	DisAdvantaes
1	Nutrition research to affect food and a healthy life span	1. Cost Effective analysis 2. Data Mining	1.Specify the role of nutrition in health maintenance 2.Understanding variability in individual responses to diet and foods	1.No research is done about how nutrition affects a patient's response to therapy 2.Discussion is needed to understand and minimize unfavourable impacts of both reduced and elevated nutrient intakes on disease progression and overall health.
2	Developing a nutrition and diet expert system prototype	1.Freeware rule based shell 2.Machine Learning	1. The system will save time instead of going to the human expert. 2.The nutrition and diet knowledge and	1. Unclear solutions for average people. 2.Not covering everything about nutrition.

|			information in easy, clear, and understandable.	
3	Development of a cloud based solution for effective nutrition intervention in the management of lifestyle diseases.	1.Information and communication technology 2.Cloud based consultation	1.Customized and easy to access user Interface. 2.Suggest diet plans as per available raw materials.	1.No record on health history. 2.No discussion on ketogenic diet plans.

2.2 REFERENCE

1)Achananuparp, P., Weber, I.: Extracting food substitutes from food diary via distributional similarity (2016)

2)Davis, C., Bryan, J., Hodgson, J., Murphy, K.: Definition of the mediterranean diet; a literature review.

3)Chen, M., Jia, X., Gorbonos, E., Hong, C.T., Yu, X., Liu, Y.: Eating healthier: exploring nutrition information for healthier recipe recommendation. Inf. Process. Manag. 102051, 102051 (2019)

2.3 PROBLEM STATEMENT DEFINITION

Due to the improvement in people's standards of living, obesity rates are increasing at anal arming 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 dashboardsystemswhichcan analyze real-time images of the meal and analyze it for nutritional content can be very handyandimprovethedietary habits, and therefore, result in a healthylife.This guided project aims at building a Web App which automatically estimates food attributessuchasingredientsand nutritional value by classifying the input image of food.Our method employs the IBM Watson food model for accurate food identification and Food APIs to give the nutritional value of the identified food

3. IDEATION &PROPOSED SYSTEM

3.1 EMPATHY MAP CANVAS
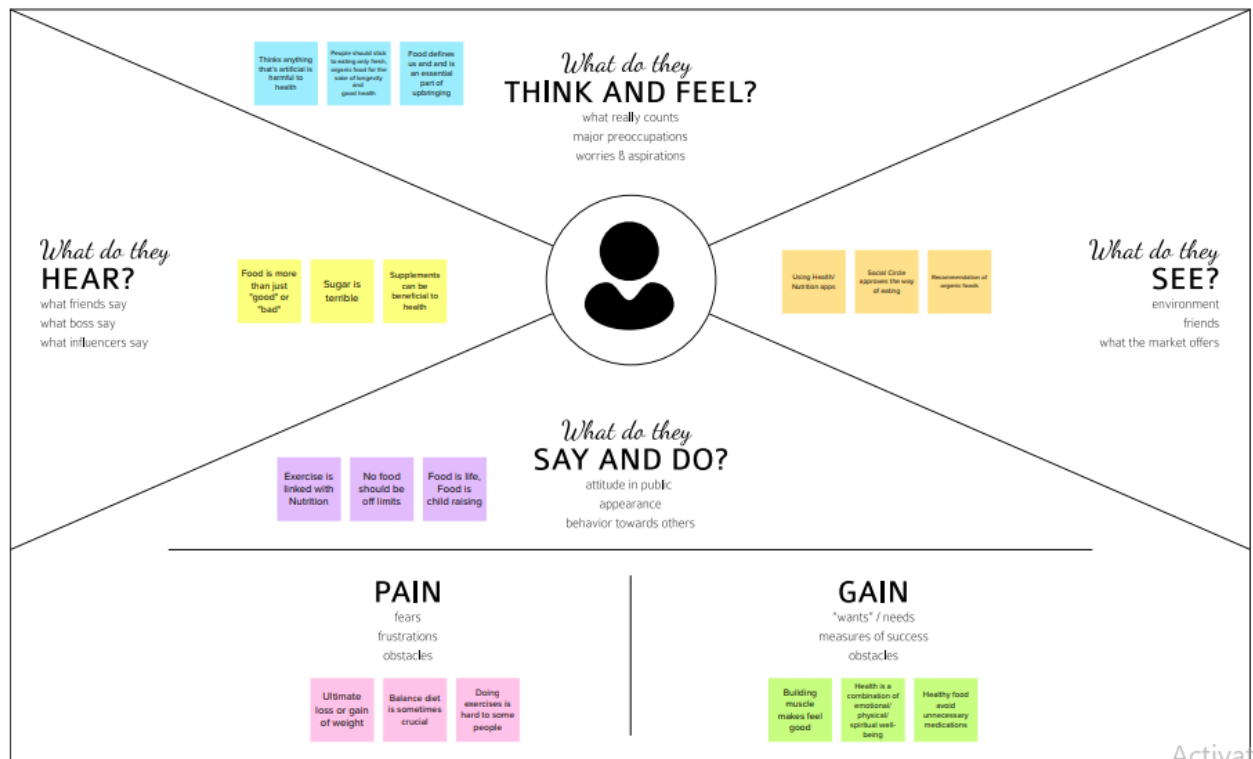
3.2 IDEATION & BRAINSTROMING

After and researching and know about the various approaches that have been raised for nutrition assistant using cloud application department we have decide to propose our problem statement as this project examines the Calorie content concentrating on diet plans and rich content food and try to predict the right nutrition content in the food.Here we are building a model by using cloud application development to find the best acurate model and integrate to flask based web application.User can perdict the nutrition by clicking the image of food.

3.3 PROPOSED SOLUTION

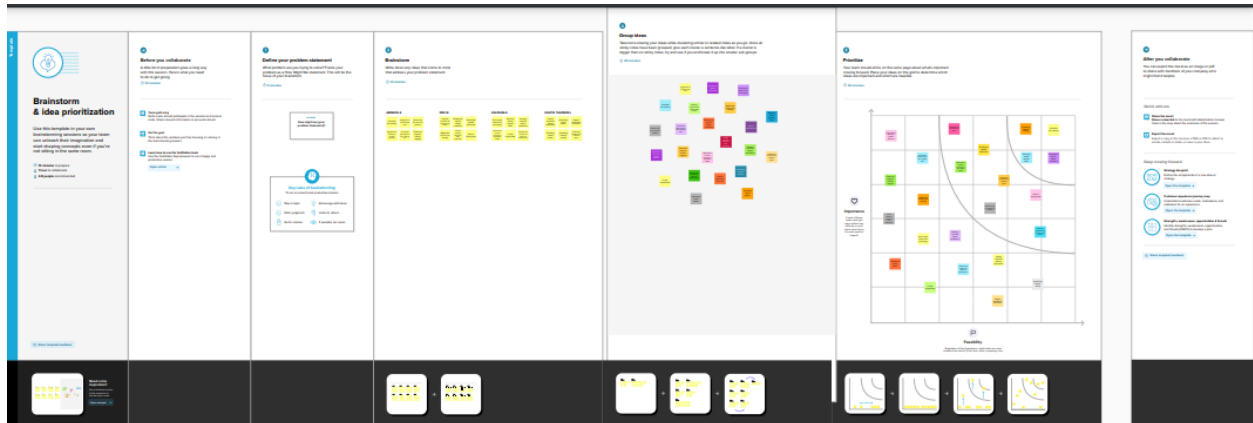| S. NO	Parameter	Description
1	Problem Statement (Problem to be solved)	With a growing trend of sedentary and lack of physical activities, diseases related to liver have become a common encounter nowadays. In rural areas the intensity is still manageable, but in urban areas, and especially metropolitan areas the liver disease is a very common sighting nowadays. Liver diseases cause millions of deaths every year. Viral hepatitis alone causes 1.34 million deaths every year. Problems with liver patients are not easily discovered in an early stage as it will be functioning normally even when it is partially damaged.
2	Idea/Solution description	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.

3	Novelty/ Uniqueness	Customer can add recipes with combined and different ingredients that is used to calculate calories in the food items.
4	SocialImpact/ Customer Satisfaction	The predicted result will satisfy users to find nutritional foods that can obey their health condition.
5	Business Model (Revenue Model)	
6	Scalability of the Solution	It can handle any amount of data and perform many computations in an effective and time-saving way

3.4 PROBLEM SOLUTION FIT

4.REQUIREMENT ANALYSIS

4.1 FUNCTIONAL REQUIREMENTS

FR No	Functional Requirement (Epic)	Sub Requirement (Story/ Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Uploading Image	The application should be able to get the image from the user.
FR-4	Identification of image	The application should be able to identify the image of the food
FR-5	Display the nutritional value	The application must be able to display the nutritional value of the food.
FR-6	Proper diet chart	Add health details to make a proper diet chart.
FR-7	Use recommended food	Consume the food recommended by the application to maintain a healthy lifestyle.

4.2 NON-FUNCTIONAL REQUIREMENTS

FR No	Functional Requirements	Description
NFR-1	Usability	The web app helps to know the nutritional value present in the food by classifying the input image of the food.
NFR-2	Security	This web app secure the user information from unauthorized access, modification or destruction in order to provide integrity, confidentiality and availability.
NFR-3	Reliability	This application operates without failure while in a specified environment.
NFR-4	Performance	Provide a relevant food analysis and the best diet plan, directing the user to follow a healthy diet.
NFR-5	Availability	To make sure that the application is easily available and ready to use for the users.

NFR-6	Scalability	The measure of the application's ability to increase or decrease in performance. It possess enough data consistency to handle a growing number of users.

5.PROJECT DESIGN
5.1 DATA FLOW DIAGRAM
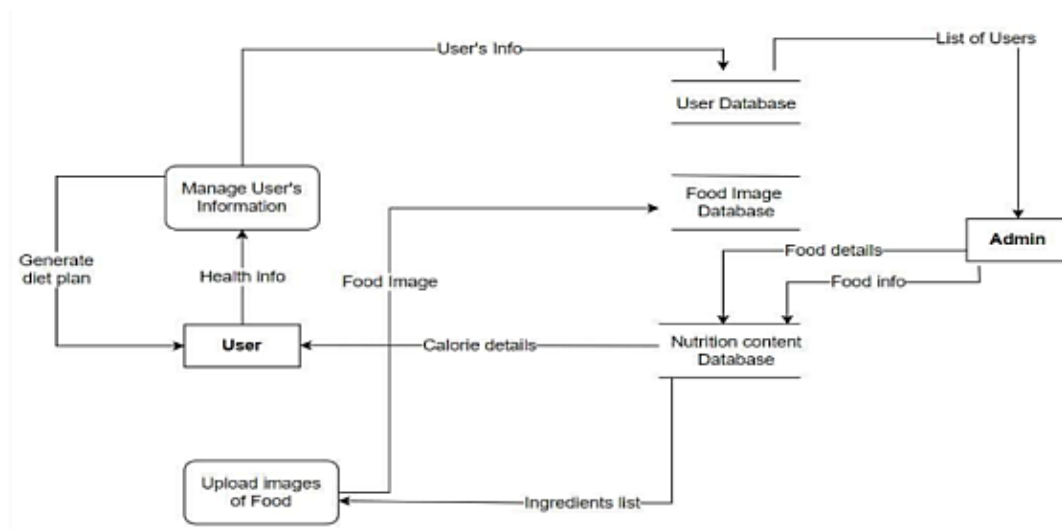
5.2 SOLUTION & TECHNICAL ARCHITECTURE
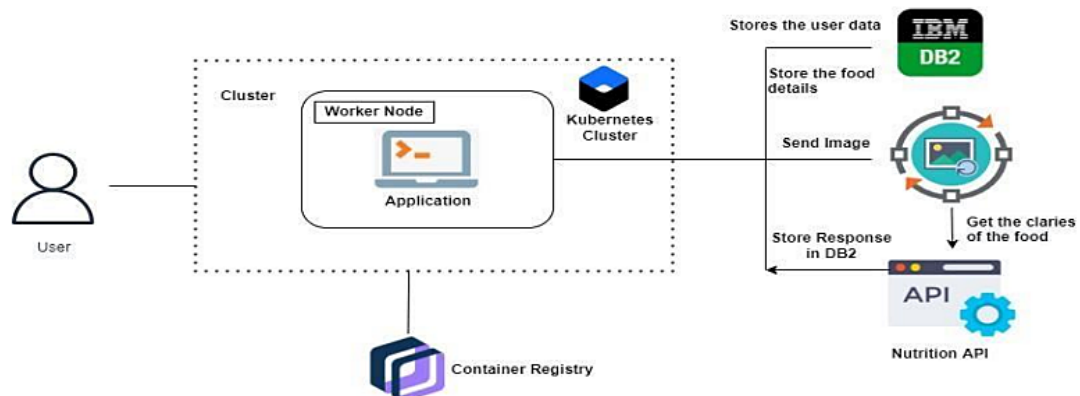
5.3 USER STORIES

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Web 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 the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Gmail	I can register & access the dashboard with Gmail Login	Medium	Sprint-1
	Login	USN-4	As a user, I can log into the application by entering email & password	I can login into the web page with Gmail Login	High	Sprint-1
	Dashboard	USN-5	As a user, I	I can access	High	Sprint-1

			can access the dashboard by logging into the webpage	Dashboard by logging into the web-page		
Customer Care Executive	Data collection	USN-6	As a user, I can add my health details.	I can login into the application with Gmail Login	Medium	Sprint-1
	Accessing the application	USN-7	As a user, I can capture the image of food and identify it's nutritional value with the help of application.	I can access the Dashboard by logging into the application	High	Sprint-1
	Tracking the calories	USN-8	As a user, I can easily track my calories.	I can access the Service page by logging and accessing the page	Medium	Sprint-1
Administrator	Recommen dation	USN-9	As a user, I will take the food which is recommended by the application to maintain a healthy lifestyle.	I can login into the application with Gmail Login	High	Sprint-1
	View the image	USN-10	As a admin, I can view the data received from the user.	I can access theDashboa rd by logging into the	Medium	Sprint-1

	Provide nutritional information	USN-11	As a admin, I can provide nutritional information about the analyzed image	I can access Administration & Service page by logging and accessing the page	High	Sprint-1

6.PROJECT PLANNING & SCHEDULING
6.1 SPRINT PLANNING ESTIMATION

SPRINT	FUNCTIOAL REQUIREMNT (EPIC)	USER STORY NUMBER	USER STORY/TASK	STORY POINTS	PRIORITY	TEAM MEMBE RS
Sprint-1	Data Input	USN-1	As a user, I can enter the details that is asked to predict the calories and nutrtion content in the food	2	Medium	Kalpana .S
Sprint-2	Analyze	USN-2	I can analyse the dataset	1	High	Kaviya Tharsini .L
Sprint-	Develop and train	USN-3	I can develop and train the model to predict the Nutrition content	2	High	Abinaya
Sprint-4	Application	USN-4	Shows the final Prediction	2	Medium	Devi.E

6.2 SPRINT DELIVERY SCHEDULE

SPRINT	TOTAL STORY POINT	DURATON	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 REPORT FROM JIRA
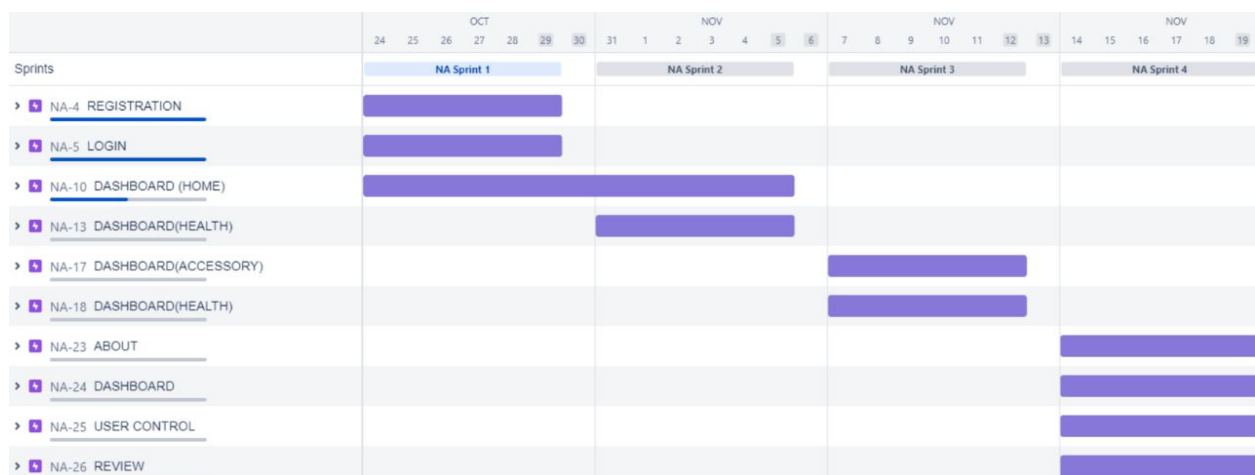
7.CODING & SOLUTIONING
7.1 FEATURE 1
NUTRITION ASSISTANT APPLICATION

DESCRIPTION

In this feature I have designed a webpage to analyse the nutritional food and health.The user have register,if they haven't the Id .The user have to login the webpage using username and password. After successful login, the user wil be redirected to the home page.In this form,users are asked to fill the body health details and the food details.After entering the appropriate details the nutritional details the nutritional result will be displayed.

LOGIN.HTML

```
<div class="container" id="container">
      <div class="form-container sign-up-container">
  <link rel="stylesheet" type="text/css" href="login.css">
  <script src="login.js"></script>
              <form action="#">
                  <h1>Create Account</h1>
                  <div class="social-container">
                          <a    href="#"    class="social"><i    class="fab    fa-google-
g"></i></a>
                          <a    href="#"    class="social"><i    class="fab    fa-linkedin-
in"></i></a>
                  </div>
                  <span>or use your email for registration</span>
                  <input type="text" placeholder="Name" />
                  <input type="email" placeholder="Email" />
                  <input type="password" placeholder="Password" />
    <input type="Confirm password" placeholder="Confirm Password" />
                  <button>Sign Up</button>
          </form>
    </div>
    <div class="form-container sign-in-container">
          <form action="#">
                  <h1>Sign in</h1>
```

```html
            <div class="social-container">

                <a    href="index.html"    class="social"><i    class="icon-google"></i>G</a>
                <a    href="index.html"    class="social"><i    class="icon-linkedin"></i>li</a>

</div>
                <span>or use your account</span>
      <input type="text" placeholder="Name" />
      <input type="email" placeholder="Email" />
      <input type="password" placeholder="Password" />
      <input type="Confirm password" placeholder="Confirm Password" />
                <a href="#">Forgot your password?</a>
                <button>Sign In</button>
            </form>
         </div>
         <div class="overlay-container">
              <div class="overlay">
                    <div class="overlay-panel overlay-left">
                         <h1>Welcome Back!</h1>
                         <p>To keep connected with us please login with your personal info</p>

                         <button class="ghost" id="signIn">Sign In</button>
                    </div>
                    <div class="overlay-panel overlay-right">
                         <h1>WELCOME TO NUTRO ASSISTANT</h1>
                         <p>"Our FOOD should be our MEDICINE" &</br>
      "Our MEDICINE should be our FOOD"</p>
      <button class="ghost" id="signUp">Sign Up</button>
                    </div>
              </div>
         </div>
</div>
```

LOGIN.CSS

```css
@import url('https://fonts.googleapis.com/css?family=Montserrat:400,800');

* {
        box-sizing: border-box;
}

body {
        background-image:url('a.png');
        display: flex;
        justify-content: center;
        align-items: center;
        flex-direction: column;
        font-family: 'Montserrat', sans-serif;
        height: 100vh;
        margin: -20px 0 50px;
}

h1 {
        font-weight: bold;
        margin: 0;
}

h2 {
        text-align: center;
}

p {
        font-size: 14px;
        font-weight: 100;
        line-height: 20px;
        letter-spacing: 0.5px;
        margin: 20px 0 30px;
}

span {
```

```css
        font-size: 12px;
}

a {
        color: #333;
        font-size: 14px;
        text-decoration: none;
        margin: 15px 0;
}

button {
        border-radius: 20px;
        border: 1px solid #ff4b2b1;
        background-color: #228C22;
        color: #FFFFFF;
        font-size: 15px;
        font-weight: bold;
        padding: 12px 45px;
        letter-spacing: 1px;
        text-transform: uppercase;
        transition: transform 80ms ease-in;
}

button:active {
        transform: scale(0.95);
}

button:focus {
        outline: none;
}

button.ghost {
        background-color: transparent;
        border-color: #FFFFFF;
}

form {
```

```css
        background-color: #FFFFFF;
        display: flex;
        align-items: center;
        justify-content: center;
        flex-direction: column;
        padding: 0 50px;
        height: 100%;
        text-align: center;
}

input {
        background-color:#eee;
        border: none;
        padding: 12px 15px;
        margin: 8px 0;
        width: 100%;
}

.container {
        background-color: #fff;
        border-radius: 10px;
        box-shadow: 0 14px 28px rgba(0,0,0,0.25),
                    0 10px 10px rgba(0,0,0,0.22);
        position: relative;
        overflow: hidden;
        width: 768px;
        max-width: 100%;
        min-height: 480px;
}

.form-container {
        position: absolute;
        top: 0;
        height: 100%;
        transition: all 0.6s ease-in-out;
}
```

```css
.sign-in-container {
        left: 0;
        width: 50%;
        z-index: 2;
}

.container.right-panel-active .sign-in-container {
        transform: translateX(100%);
}

.sign-up-container {
        left: 0;
        width: 50%;
        opacity: 0;
        z-index: 1;
}

.container.right-panel-active .sign-up-container {
        transform: translateX(100%);
        opacity: 1;
        z-index: 5;
        animation: show 0.6s;
}

@keyframes show {
        0%, 49.99% {
                opacity: 0;
                z-index: 1;
        }

        50%, 100% {
                opacity: 1;
                z-index: 5;
        }
}

.overlay-container {
```

```css
        position: absolute;
        top: 0;
        left: 50%;
        width: 50%;
        height: 100%;
        overflow: hidden;
        transition: transform 0.6s ease-in-out;
        z-index: 100;
}

.container.right-panel-active .overlay-container{
        transform: translateX(-100%);
}

.overlay {
        background: #FF416C;
        background: -webkit-linear-gradient(to right,#004225,#138808);
        background: linear-gradient(to right,#004225,#138808);
        background-repeat: no-repeat;
        background-size: cover;
        background-position: 0 0;
        color: #FFFFFF;
        position: relative;
        left: -100%;
        height: 100%;
        width: 200%;
        transform: translateX(0);
        transition: transform 0.6s ease-in-out;
}

.container.right-panel-active .overlay {
        transform: translateX(50%);
}

.overlay-panel {
        position: absolute;
        display: flex;
```

```css
        align-items: center;
        justify-content: center;
        flex-direction: column;
        padding: 0 40px;
        text-align: center;
        top: 0;
        height: 100%;
        width: 50%;
        transform: translateX(0);
        transition: transform 0.6s ease-in-out;
}

.overlay-left {
        transform: translateX(-20%);
}

.container.right-panel-active .overlay-left {
        transform: translateX(0);
}

.overlay-right {
        right: 0;
        transform: translateX(0);
}

.container.right-panel-active .overlay-right {
        transform: translateX(20%);
}

.social-container {
        margin: 20px 0;
}

.social-container a {
        border: 1px solid #DDDDDD;
        border-radius: 50%;
        display: inline-flex;
```

```css
        justify-content: center;
        align-items: center;
        margin: 0 5px;
        height: 40px;
        width: 40px;
}

footer {
    background-color: #222;
    color: #fff;
    font-size: 14px;
    bottom: 0;
    position: fixed;
    left: 0;
    right: 0;
    text-align: center;
    z-index: 999;
}

footer p {
    margin: 10px 0;
}

footer i {
    color: red;
}

footer a {
    color: #3c97bf;
    text-decoration:Â none;
}
```

LOGIN.JS

```
const signUpButton = document.getElementById('signUp');
const signInButton = document.getElementById('signIn');
const container = document.getElementById('container');

signUpButton.addEventListener('click', () => {
        container.classList.add("right-panel-active");
});

signInButton.addEventListener('click', () => {
        container.classList.remove("right-panel-active");
});
```
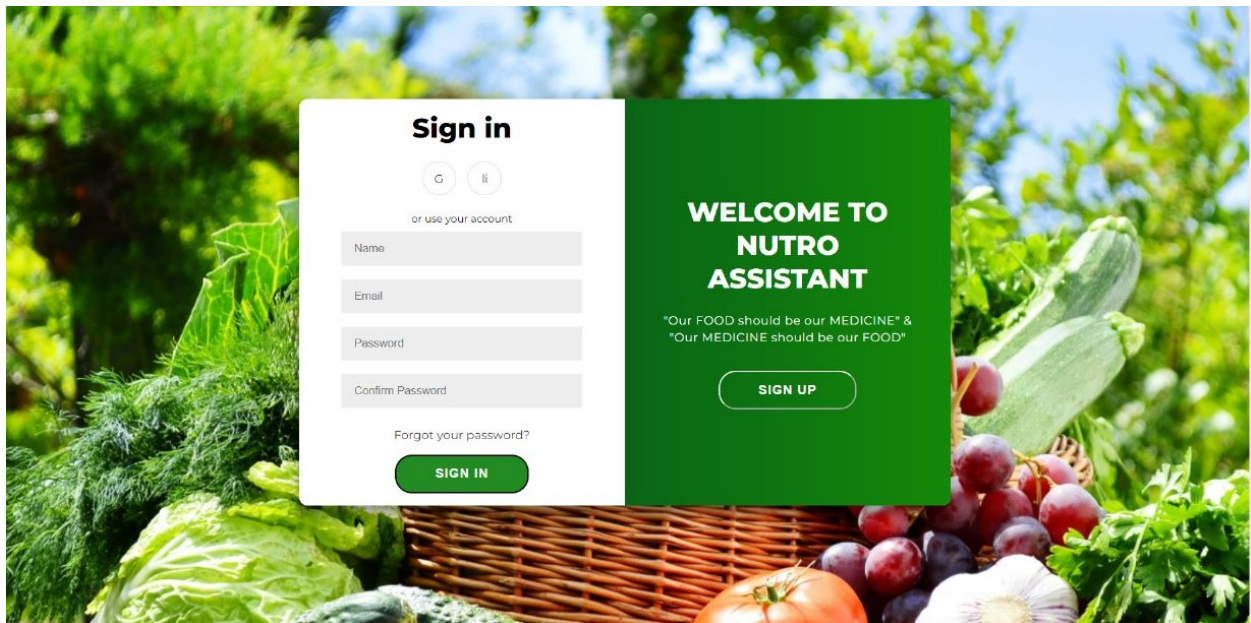

7.2 FEATURE 2

JACKBOT.HTML

```
<html>
<head></head>
<body>
  <title>My Test Page</title>
  <h1><center>Welcome to Virtual Assistant!<center>
```

```
</h1>
  <script>
window.watsonAssistantChatOptions = {
  integrationID: "a09d8a78-e1f6-41b8-b072-5d26fe0b8f01", // The ID of this integration.
  region: "au-syd", // The region your integration is hosted in.
      serviceInstanceID: "37c122b5-72e1-44df-a5fb-463376d0c8a1", // 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>
  </body>
</html>
```

BLOG-SINGLE.HTML
```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <meta content="width=device-width, initial-scale=1.0" name="viewport">

  <title>DevFolio Bootstrap Portfolio Template - Blog Single</title>
  <meta content="" name="description">
  <meta content="" name="keywords">

  <!-- Favicons -->
  <link href="assets/img/favicon.png" rel="icon">
  <link href="assets/img/apple-touch-icon.png" rel="apple-touch-icon">

  <!-- Vendor CSS Files -->
```

```html
    <link href="assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
    <link href="assets/vendor/bootstrap-icons/bootstrap-icons.css" rel="stylesheet">
    <link href="assets/vendor/glightbox/css/glightbox.min.css" rel="stylesheet">
    <link href="assets/vendor/swiper/swiper-bundle.min.css" rel="stylesheet">

    <!-- Template Main CSS File -->
    <link href="assets/css/style.css" rel="stylesheet">

    <!-- =======================================================
    * Template Name: DevFolio - v4.9.1
      * Template URL: https://bootstrapmade.com/devfolio-bootstrap-portfolio-html-template/
    * Author: BootstrapMade.com
    * License: https://bootstrapmade.com/license/
    ======================================================== -->
</head>

<body>

  <!-- ======= Header ======= -->
  <header id="header" class="fixed-top">
    <div class="container d-flex align-items-center justify-content-between">

      <h1 class="logo"><a href="index.html">Nutrix</a></h1>
      <!-- Uncomment below if you prefer to use an image logo -->
          <!-- <a href="index.html" class="logo"><img src="assets/img/logo.png" alt="" class="img-fluid"></a>-->

      <nav id="navbar" class="navbar">
       <ul>
         <li><a class="nav-link scrollto " href="#hero">Home</a></li>
         <li><a class="nav-link scrollto" href="#about">About</a></li>
         <li><a class="nav-link scrollto" href="#services">Services</a></li>
         <li><a class="nav-link scrollto " href="#work">Work</a></li>
         <li><a class="nav-link scrollto " href="#blog">Blog</a></li>
            <li class="dropdown"><a href="#"><span>Drop Down</span> <i class="bi bi-chevron-down"></i></a>
```

```html
          <ul>
           <li><a href="#">Drop Down 1</a></li>
             <li class="dropdown"><a href="#"><span>Deep Drop Down</span> <i class="bi bi-chevron-right"></i></a>
              <ul>
               <li><a href="#">Deep Drop Down 1</a></li>
               <li><a href="#">Deep Drop Down 2</a></li>
               <li><a href="#">Deep Drop Down 3</a></li>
               <li><a href="#">Deep Drop Down 4</a></li>
               <li><a href="#">Deep Drop Down 5</a></li>
              </ul>
             </li>
             <li><a href="#">Drop Down 2</a></li>
             <li><a href="#">Drop Down 3</a></li>
             <li><a href="#">Drop Down 4</a></li>
            </ul>
           </li>
           <li><a class="nav-link scrollto" href="#contact">Contact</a></li>
          </ul>
          <i class="bi bi-list mobile-nav-toggle"></i>
        </nav><!-- .navbar -->

      </div>
    </header><!-- End Header -->

        <div class="hero hero-single route bg-image" style="background-image: url(assets/img/overlay-bg.jpg)">
      <div class="overlay-mf"></div>
      <div class="hero-content display-table">
        <div class="table-cell">
          <div class="container">
            <h2 class="hero-title mb-4">NUTRISPOT</h2>
            <ol class="breadcrumb d-flex justify-content-center">
              <li class="breadcrumb-item">
                <a href="#">Home</a>
              </li>
              <li class="breadcrumb-item">
```

```html
        <a href="#">Library</a>
      </li>
      <li class="breadcrumb-item active">Tips</li>
    </ol>
   </div>
  </div>
 </div>
</div>

<main id="main">

 <!-- ======= Blog Single Section ======= -->
 <section class="blog-wrapper sect-pt4" id="blog">
  <div class="container">
   <div class="row">
    <div class="col-md-8">
     <div class="post-box">
      <div class="post-thumb">
       <img src="assets/img/post-1.jpg" class="img-fluid" alt="">
      </div>
      <div class="post-meta">
       <h1 class="article-title">Personalized Nutrition Assistant</h1>
       <ul>
        <li>
         <span class="bi bi-person"></span>
         <a href="#">Dennis Bier</a>
        </li>
        <li>
         <span class="bi bi-tag"></span>
         <a href="#">Web Design</a>
        </li>
        <li>
         <span class="bi bi-chat-left-text"></span>
         <a href="#">10</a>
        </li>
       </ul>
      </div>
```

```
<div class="article-content">
 <p>
```

Nutrition assistants help dieticians 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.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.

```
 </p>
 <p>
```

Nutrition is how food affects the health of the body. Food is essential—it provides vital nutrients for survival, and helps the body function and stay healthy. Food is comprised of macronutrients including protein, carbohydrate and fat that not only offer calories to fuel the body and give it energy but play specific roles in maintaining health. Food also supplies micronutrients (vitamins and minerals) and phytochemicals that don't provide calories but serve a variety of critical functions to ensure the body operates optimally.

```
 </p>
 <p>
```

Using actual local foods for hands-on meal planning and for teaching food categories helps low-literacy adults and children to understand nutrition. Health educators should try to acquire local foods to use in nutrition education in addition to laminated illustrations.

```
 </p>
 <p>
```

A nutritional imbalance happens when you are not getting the right amounts of all of the nutrients you need. You can have too much of something, but it is generally more serious to have

too little of a nutrient.
                To help maintain your body and keep it strong you need to have a balanced diet as well as a nutritional one.
        </p>
        <blockquote class="blockquote">
                <p class="mb-0">You feel better when you're eating foods that retain nutritional value.</p>
        </blockquote>
        <p>
            The best way to get the nutrition you need is through your diet. The body usually processes food better than
            supplements, so this is the most effective and efficient way to get what you need.But if diet can't do it because
                you can't get the food you need or your body won't tolerate it, then supplements are available to, well, supplement
         your diet and nutrition needs.
        </p>
      </div>
     </div>
     <div class="box-comments">
      <div class="title-box-2">
        <h4 class="title-comments title-left">Comments </h4>
      </div>
      <ul class="list-comments">

         <div class="comment-avatar">
          <img src="assets/img/testimonial-2.jpg" alt="">
         </div>
         <div class="comment-details">
          <h4 class="comment-author">Sarah</h4>
          15 Nov 2019
          <p>
              Nutrients are the good things that we get through food which we need to nourish and nurture ourselves, and to be
             happy and healthy people.
          </p>
          Reply

```html
      </div>
     </li>
     <li>
      <div class="comment-avatar">
       <img src="assets/img/testimonial-4.jpg" alt="">
      </div>
      <div class="comment-details">
       <h4 class="comment-author">David Klurfeld</h4>
       <span>15 Nov 2019</span>
       <p>
        Nutrition is the supply of food that we need as an organism to feed our cells
and keep them alive.
       </p>
       <a href="3">Reply</a>
      </div>
     </li>
     <li class="comment-children">
      <div class="comment-avatar">
       <img src="assets/img/testimonial-2.jpg" alt="">
      </div>
      <div class="comment-details">
       <h4 class="comment-author">Sarah</h4>
       <span>15 Nov 2019</span>
       <p>
        We can get nutrients from products such as vitamin supplements,proteins.
       </p>
       <a href="3">Reply</a>
      </div>
     </li>
     <li>
      <div class="comment-avatar">
       <img src="assets/img/testimonial-2.jpg" alt="">
      </div>
      <div class="comment-details">
       <h4 class="comment-author">Venkatesh</h4>
       <span>15 Nov 2019</span>
       <p>
```

To help maintain your body and keep it strong you need to have a balanced diet as well as a nutritional one.

```
          </p>
          <a href="3">Reply</a>
        </div>
      </li>
    </ul>
  </div>
  <div class="form-comments">
   <div class="title-box-2">
    <h3 class="title-left">
     Leave a Reply
    </h3>
   </div>
   <form class="form-mf">
    <div class="row">
      <div class="col-md-6 mb-3">
       <div class="form-group">
                    <input type="text" class="form-control input-mf" id="inputName"
placeholder="Name *" required>
        </div>
      </div>
      <div class="col-md-6 mb-3">
       <div class="form-group">
                    <input type="email" class="form-control input-mf" id="inputEmail1"
placeholder="Email *" required>
        </div>
      </div>
      <div class="col-md-12 mb-3">
       <div class="form-group">
                    <input type="url" class="form-control input-mf" id="inputUrl"
placeholder="Website">
        </div>
      </div>
      <div class="col-md-12 mb-3">
       <div class="form-group">
                    <textarea id="textMessage" class="form-control input-mf"
```

```html
placeholder="Comment *" name="message" cols="45" rows="8" required></textarea>
            </div>
          </div>
          <div class="col-md-12">
                      <button type="submit" class="button button-a button-big button-rouded">Send Message</button>
          </div>
        </div>
      </form>
    </div>
  </div>
  <div class="col-md-4">
    <div class="widget-sidebar sidebar-search">
      <h5 class="sidebar-title">Search</h5>
      <div class="sidebar-content">
        <form>
          <div class="input-group">
                      <input type="text" class="form-control" placeholder="Search for..." aria-label="Search for...">
            <span class="input-group-btn">
              <button class="btn btn-secondary btn-search" type="button">
                <span class="bi bi-search"></span>
              </button>
            </span>
          </div>
        </form>
      </div>
    </div>
    <div class="widget-sidebar">
      <h5 class="sidebar-title">Recent Post</h5>
      <div class="sidebar-content">
        <ul class="list-sidebar">
          <li>
            <a href="#">Diet Expert System</a>
          </li>
          <li>
            <a href="#">Nutrition Research</a>
```

```html
        </li>
        <li>
          <a href="#">Personal Health Assistant</a>
        </li>
        <li>
          <a href="#">Diet Control and Fitness System</a>
        </li>
        <li>
          <a href="#">Nutritional Risk and Dietary Intake</a>
        </li>
      </ul>
    </div>
  </div>
  <div class="widget-sidebar">
    <h5 class="sidebar-title">Archives</h5>
    <div class="sidebar-content">
      <ul class="list-sidebar">
        <li>
          <a href="#">November, 2019.</a>
        </li>
        <li>
          <a href="#">July, 2019.</a>
        </li>
        <li>
          <a href="#">Diet Control</a>
        </li>
        <li>
          <a href="#">Diet Expert System</a>
        </li>
        <li>
          <a href="#">Nutritional Risk</a>
        </li>
      </ul>
    </div>
  </div>
  <div class="widget-sidebar widget-tags">
    <h5 class="sidebar-title">Tags</h5>
```

```html
          <div class="sidebar-content">
            <ul>
              <li>
                <a href="#">Editor</a>
              </li>
              <li>
                <a href="#">Design</a>
              </li>
              <li>
                <a href="#">Travel</a>
              </li>
              <li>
                <a href="#">Adventure</a>
              </li>
              <li>
                <a href="#">Food</a>
              </li>
              <li>
                <a href="#">Nutrition</a>
              </li>
            </ul>
          </div>
        </div>
      </div>
    </div>
  </section><!-- End Blog Single Section -->

</main><!-- End #main -->

<!-- ======= Footer ======= -->
<footer>
  <div class="container">
    <div class="row">
      <div class="col-sm-12">
        <div class="credits">
          <!--
```

All the links in the footer should remain intact.
You can delete the links only if you purchased the pro version.
Licensing information: https://bootstrapmade.com/license/
Purchase the pro version with working PHP/AJAX contact form: https://bootstrapmade.com/buy/?theme=DevFolio
-->
</div>
</div>
</div>
</div>
</footer><!-- End Footer -->

<div id="preloader"></div>
  <i class="bi bi-arrow-up-short"></i>

<!-- Vendor JS Files -->
<script src="assets/vendor/purecounter/purecounter_vanilla.js"></script>
<script src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
<script src="assets/vendor/glightbox/js/glightbox.min.js"></script>
<script src="assets/vendor/swiper/swiper-bundle.min.js"></script>
<script src="assets/vendor/typed.js/typed.min.js"></script>
<script src="assets/vendor/php-email-form/validate.js"></script>

<!-- Template Main JS File -->
<script src="assets/js/main.js"></script>

</body>
</html>

INDEX.HTML
<!DOCTYPE html>
<html lang="en">

<head>
  <script>

```
    window.watsonAssistantChatOptions = {
            integrationID: "a09d8a78-e1f6-41b8-b072-5d26fe0b8f01", // The ID of this
integration.
        region: "au-syd", // The region your integration is hosted in.
          serviceInstanceID: "37c122b5-72e1-44df-a5fb-463376d0c8a1", // 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>
  <meta charset="utf-8">
  <meta content="width=device-width, initial-scale=1.0" name="viewport">

  <title>DevFolio Bootstrap Portfolio Template - Index</title>
  <meta content="" name="description">
  <meta content="" name="keywords">

  <!-- Favicons -->
  <link href="assets/img/favicon.png" rel="icon">
  <link href="assets/img/apple-touch-icon.png" rel="apple-touch-icon">

  <!-- Vendor CSS Files -->
  <link href="assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
  <link href="assets/vendor/bootstrap-icons/bootstrap-icons.css" rel="stylesheet">
  <link href="assets/vendor/glightbox/css/glightbox.min.css" rel="stylesheet">
  <link href="assets/vendor/swiper/swiper-bundle.min.css" rel="stylesheet">

  <!-- Template Main CSS File -->
  <link href="assets/css/style.css" rel="stylesheet">
```

```html
<!-- =========================================================
* Template Name: DevFolio - v4.9.1
  * Template URL: https://bootstrapmade.com/devfolio-bootstrap-portfolio-html-
template/
* Author: BootstrapMade.com
* License: https://bootstrapmade.com/license/
======================================================== -->
</head>

<body>

  <!-- ======= Header ======= -->
  <header id="header" class="fixed-top">
    <div class="container d-flex align-items-center justify-content-between">

      <h1 class="logo"><a href="index.html">NUTRO-PAL</a></h1>
      <!-- Uncomment below if you prefer to use an image logo -->
        <!-- <a href="index.html" class="logo"><img src="assets/img/logo.png" alt=""
class="img-fluid"></a>-->

      <nav id="navbar" class="navbar">
        <ul>
          <li><a class="nav-link scrollto active" href="#hero">Home</a></li>
          <li><a class="nav-link scrollto" href="#about">About</a></li>
          <li><a class="nav-link scrollto " href="#work">Health</a></li>
          <li><a class="nav-link scrollto " href="#blog">Accessories</a></li>
          <li><a class="nav-link scrollto" href="#contact">Contact</a></li>
        </ul>
        <i class="bi bi-list mobile-nav-toggle"></i>
      </nav>
      <!-- .navbar -->

    </div>
  </header>
  <!-- End Header -->
```

```html
<!-- ======= Hero Section ======= -->
        <div id="hero" class="hero route bg-image" style="background-image:
url(assets/img/w2.jpg)">
    <div class="overlay-itro"></div>
    <div class="hero-content display-table">
      <div class="table-cell">
        <div class="container">
          <!--<p class="display-6 color-d">Hello, world!</p>-->
          <h1 class="hero-title mb-4">The Nutrix</h1>
            <p class="hero-subtitle"><span class="typed" data-typed-items="The First
Wealth is Health, Eat Mindfully, Stay Hydrated, Strengthens Bones, Keeps Skin Healthy,
Maintain a Healthy Weight"></span></p>
                <!-- <p class="pt-3"><a class="btn btn-primary btn js-scroll px-4"
href="#about" role="button">Learn More</a></p> -->
        </div>
      </div>
    </div>
  </div>
  <!-- End Hero Section -->

  <main id="main">

    <!-- ======= About Section ======= -->
    <section id="about" class="about-mf sect-pt4 route">
      <div class="container">
        <div class="row">
          <div class="col-sm-12">
            <div class="box-shadow-full">
              <div class="row">
                <div class="col-md-6">
                  <div class="row">
                    <div class="col-sm-6 col-md-5">
                      <div class="about-img">
                            <img src="assets/img/w-3.jpg" class="img-fluid rounded b-
shadow-a" alt="">
                      </div>
                    </div>
```

```html
                        </div>
                        <div class="skill-mf">
                          <p class="title-s">Performance</p>
                                <span>2022</span> <span class="pull-right">&nbsp &nbsp
&nbsp 85%</span>
                        <div class="progress">
                               <div class="progress-bar" role="progressbar" style="width:
85%;" aria-valuenow="85" aria-valuemin="0" aria-valuemax="100"></div>
                        </div>
                                <span>2021</span> <span class="pull-right">&nbsp &nbsp
&nbsp 75%</span>
                        <div class="progress">
                           <div class="progress-bar" role="progressbar" style="width: 75%"
aria-valuenow="75" aria-valuemin="0" aria-valuemax="100"></div>
                        </div>
                                <span>2020</span> <span class="pull-right">&nbsp &nbsp
&nbsp 50%</span>
                        <div class="progress">
                           <div class="progress-bar" role="progressbar" style="width: 50%"
aria-valuenow="50" aria-valuemin="0" aria-valuemax="100"></div>
                        </div>
                                <span>2019</span> <span class="pull-right">&nbsp &nbsp
&nbsp 25%</span>
                        <div class="progress">
                           <div class="progress-bar" role="progressbar" style="width: 25%"
aria-valuenow="90" aria-valuemin="0" aria-valuemax="100"></div>
                        </div>
                      </div>
                    </div>
                  <div class="col-md-6">
                    <div class="about-me pt-4 pt-md-0">
                      <div class="title-box-2">
                        <h5 class="title-left">
                          About Us
                        </h5>
                      </div>
                      <p class="lead">
```

Nutrition assistants help dieticians 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.
```
</p>
<p class="lead">
```
A nutritionist is responsible for assessing people's needs using scientific methods and determining the most suitable nutrition plans.
```
</p>
<p class="lead">
```
Nutrition assistants are responsible for helping people maintain healthy diets.Nutrition assistants may also help clients make healthier choices about the food they eat outside of their appointments with a nutrition assistant.
```
</p>
</div>
</div>
</div>
</div>
</div>
</div>
</section>
<!-- End About Section -->




<!-- ======= Portfolio Section ======= -->
<section id="work" class="portfolio-mf sect-pt4 route">
    <div class="container">
        <div class="row">
            <div class="col-sm-12">
                <div class="title-box text-center">
                    <h3 class="title-a">
                        Health
                    </h3>
                    <p class="subtitle-a">
```

```html
                Eat right and enjoy the taste.
            </p>
            <div class="line-mf"></div>
        </div>
    </div>
    <div class="row">
        <div class="col-md-4">
            <div class="work-box">
                    <!--  <a href="assets/img/fruits.jpeg" data-gallery="portfolioGallery" class="portfolio-lightbox"> -->
                <div class="work-img">
                    <img src="assets/img/fruits.jpeg" alt="" class="img-fluid">
                </div>
                <!-- </a> -->
                <div class="work-content">
                    <div class="row">
                        <div class="col-sm-8">
                            <h2 class="w-title">Fruits</h2>
                            <div class="w-more">
                                    <span class="w-ctegory">Vitamin</span> / <span class="w-date">A B1 B2 B6 C</span>
                            </div>
                        </div>
                        <div class="col-sm-4">
                            <div class="w-like">
                                    <!-- <a href="portfolio-details.html"> <span class="bi bi-plus-circle"></span></a> -->
                            </div>
                        </div>
                    </div>
                </div>
            </div>
        </div>
        <div class="col-md-4">
            <div class="work-box">
                <div class="work-img">
```

```html
                    <img src="assets/img/veg.jpg" alt="" class="img-fluid">
                </div>
                <div class="work-content">
                    <div class="row">
                        <div class="col-sm-8">
                            <h2 class="w-title">Vegetables</h2>
                            <div class="w-more">
                                    <span class="w-ctegory">Vitamin</span> / <span class="w-
date">A E C</span>
                            </div>
                        </div>
                        <div class="col-sm-4">
                            <div class="w-like">
                            </div>
                        </div>
                    </div>
                </div>
            </div>
        </div>
        <div class="col-md-4">
            <div class="work-box">
                <div class="work-img">
                    <img src="assets/img/nuts1.jpg" alt="" class="img-fluid">
                </div>
                <div class="work-content">
                    <div class="row">
                        <div class="col-sm-8">
                            <h2 class="w-title">Nuts</h2>
                            <div class="w-more">
                                <span class="w-ctegory">Proteins Fiber</span>
                            </div>
                        </div>
                        <div class="col-sm-4">
                            <div class="w-like">
                            </div>
                        </div>
                    </div>
```

```html
          </div>
        </div>
      </div>
      <div class="col-md-4">
        <div class="work-box">
          <div class="work-img">
            <img src="assets/img/juice.jpg" alt="" class="img-fluid">
          </div>
          <div class="work-content">
            <div class="row">
              <div class="col-sm-8">
                <h2 class="w-title">Juice</h2>
                <div class="w-more">
                  <span class="w-ctegory">Minerals Vitamins</span>
                </div>
              </div>
              <div class="col-sm-4">
                <div class="w-like">
                </div>
              </div>
            </div>
          </div>
        </div>
      </div>
      <div class="col-md-4">
        <div class="work-box">
          <div class="work-img">
            <img src="assets/img/greens.jpg" alt="" class="img-fluid">
          </div>
          <div class="work-content">
            <div class="row">
              <div class="col-sm-8">
                <h2 class="w-title">Greens</h2>
                <div class="w-more">
                  <span class="w-ctegory">Fiber Vitamin Minerals</span>
                </div>
              </div>
```

```html
                        <div class="col-sm-4">
                          <div class="w-like">
                          </div>
                        </div>
                      </div>
                    </div>
                  </div>
                </div>
                <div class="col-md-4">
                  <div class="work-box">
                    <div class="work-img">
                      <img src="assets/img/grains.jpg" alt="" class="img-fluid">
                    </div>
                  </a>
                  <div class="work-content">
                    <div class="row">
                      <div class="col-sm-8">
                        <h2 class="w-title">Grains</h2>
                        <div class="w-more">
                                      <span class="w-ctegory">Antioxidants Minerals Vitamins</span>
                        </div>
                      </div>
                      <div class="col-sm-4">
                        <div class="w-like">
                        </div>
                      </div>
                    </div>
                  </div>
                </div>

            </div>
          </div>
        </section>
        <!-- End Portfolio Section -->
```

```html
<!-- ======= Blog Section ======= -->
<section id="blog" class="blog-mf sect-pt4 route">
  <div class="container">
    <div class="row">
      <div class="col-sm-12">
        <div class="title-box text-center">
          <h3 class="title-a">
            Accessories
          </h3>
          <p class="subtitle-a">
            A healthy outside starts from the inside
          </p>
          <div class="line-mf"></div>
        </div>
      </div>
    </div>
    <div class="row">
      <div class="col-md-4">
        <div class="card card-blog">
          <div class="card-img">
            <img src="assets/img/a1.jpg" alt="" class="img-fluid">
          </div>
          <div class="card-body">
            <div class="card-category-box">
              <div class="card-category">
                <h6 class="category">BMI</h6>
              </div>
            </div>
            <h3 class="card-title">Body Mass Index Calculation</h3>
            <p class="card-description">
              Body Mass Index(BMI) is a person's weight in kilograms(or
pounds)divided by the square of height in meters(or feet).A high BMI can indicate high
body fatness.BMI screens for weight categories that lead health problems.
            </p>
          </div>
          <div class="card-footer">
```

```html
                <div class="post-author">
                  <a href="#">
                            <img src="assets/img/lam.jpg" alt="" class="avatar rounded-circle">
                    <span class="author">Lambert Adolphe</span>
                  </a>
                </div>
                <div class="post-date">
                  <span class="bi bi-clock"></span> 10 min
                </div>
              </div>
            </div>
          </div>
          <div class="col-md-4">
            <div class="card card-blog">
              <div class="card-img">
                <img src="assets/img/a2.jpg" alt="" class="img-fluid">
              </div>
              <div class="card-body">
                <div class="card-category-box">
                  <div class="card-category">
                    <h6 class="category">Diet</h6>
                  </div>
                </div>
                <h3 class="card-title">Maintain Dietary</h3>
                <p class="card-description">
                            Diet refers to the total amount of food consumed by individuals;whereas nutrition is the process of utilising food for growth,metabolism and repair of tissues.
                </p>
              </div>
              <div class="card-footer">
                <div class="post-author">
                  <a href="#">
                        <img src="assets/img/lambert.jpg" alt="" class="avatar rounded-circle">
                    <span class="author">Lambert Adolphe</span>
```

```html
                    </a>
                  </div>
                </div>
              </div>
            </div>
            <div class="col-md-4">
              <div class="card card-blog">
                <div class="card-img">
                  <img src="assets/img/a3.jpg" alt="" class="img-fluid">
                </div>
                <div class="card-body">
                  <div class="card-category-box">
                    <div class="card-category">
                      <h6 class="category">Benefits</h6>
                    </div>
                  </div>
                  <h3 class="card-title">Usage</h3>
                  <p class="card-description">
                          Personally tailored nutritional advice.Help managing chronic
diseases.Guiding navigating food allergies,sensitivities,weight gain,self-image and
overall nutritional understanding.
                  </p>
                </div>
                <div class="card-footer">
                  <div class="post-author">
                    <a href="#">
                        <img src="assets/img/lambert.jpg" alt="" class="avatar rounded-
circle">
                        <span class="author">Lambert Adolphe</span>
                    </a>
                  </div>
                </div>
              </div>
            </div>
          </div>
        </div>
      </section>
```

```html
      <!-- End Blog Section -->

      <!-- ======= Contact Section ======= -->
       <section id="contact" class="paralax-mf footer-paralax bg-image sect-mt4 route"
style="background-image: url(assets/img/overlay-bg.jpg)">
       <div class="overlay-mf"></div>
       <div class="container">
          <div class="row">
            <div class="col-sm-12">
              <div class="contact-mf">
                <div id="contact" class="box-shadow-full">
                  <div class="row">
                    <div class="col-md-6">
                      <div class="title-box-2">
                        <h5 class="title-left">
                          Send Message Us
                        </h5>
                      </div>
                      <div>
                          <form action="forms/contact.php" method="post" role="form"
class="php-email-form">
                            <div class="row">
                              <div class="col-md-12 mb-3">
                                <div class="form-group">
                                    <input type="text" name="name" class="form-control"
id="name" placeholder="Your Name" required>
                                </div>
                              </div>
                              <div class="col-md-12 mb-3">
                                <div class="form-group">
                                    <input type="email" class="form-control" name="email"
id="email" placeholder="Your Email" required>
                                </div>
                              </div>
                              <div class="col-md-12 mb-3">
                                <div class="form-group">
                                            <input type="text" class="form-control"
```

```html
name="subject" id="subject" placeholder="Subject" required>
                                    </div>
                                </div>
                                <div class="col-md-12">
                                    <div class="form-group">
                                        <textarea class="form-control" name="message" rows="5" placeholder="Message" required></textarea>
                                    </div>
                                </div>
                                <div class="col-md-12 text-center my-3">
                                    <div class="loading">Loading</div>
                                    <div class="error-message"></div>
                                        <div class="sent-message">Your message has been sent. Thank you!</div>
                                </div>
                                <div class="col-md-12 text-center">
                                    <button type="submit" class="button button-a button-big button-rouded">Send Message</button>
                                </div>
                            </div>
                        </form>
                    </div>
                </div>
                <div class="col-md-6">
                    <div class="title-box-2 pt-4 pt-md-0">
                        <h5 class="title-left">
                            Get in Touch
                        </h5>
                    </div>
                    <div class="more-info">
                        <p class="lead">
                            Link to active social media accounts like Twitter,Facebook and Instagram to give visitors another way to engage with the business.
                        </p>
                        <ul class="list-ico">
                            <li><span class="bi bi-geo-alt"></span> 329 WASHINGTON ST BOSTON, MA 02108</li>
```

```html
                              <li><span class="bi bi-phone"></span> (617) 557-0089</li>
                              <li><span class="bi bi-envelope"></span>
contact@example.com</li>
                            </ul>
                          </div>
                          <div class="socials">
                            <ul>
                              <li><a href=""><span class="ico-circle"><i class="bi bi-
facebook"></i></span></a></li>
                              <li><a href=""><span class="ico-circle"><i class="bi bi-
instagram"></i></span></a></li>
                              <li><a href=""><span class="ico-circle"><i class="bi bi-
twitter"></i></span></a></li>
                              <li><a href=""><span class="ico-circle"><i class="bi bi-
linkedin"></i></span></a></li>
                            </ul>
                          </div>
                        </div>
                      </div>
                    </div>
                  </div>
                </div>
              </div>
            </section>
            <!-- End Contact Section -->

          </main>
          <!-- End #main -->
          <div id="preloader"></div>
            <a href="#" class="back-to-top d-flex align-items-center justify-content-center"><i
class="bi bi-arrow-up-short"></i></a>

          <!-- Vendor JS Files -->
          <script src="assets/vendor/purecounter/purecounter_vanilla.js"></script>
          <script src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
          <script src="assets/vendor/glightbox/js/glightbox.min.js"></script>
```

```html
<script src="assets/vendor/swiper/swiper-bundle.min.js"></script>
<script src="assets/vendor/typed.js/typed.min.js"></script>
<script src="assets/vendor/php-email-form/validate.js"></script>

<!-- Template Main JS File -->
<script src="assets/js/main.js"></script>

</body>
</html>
```
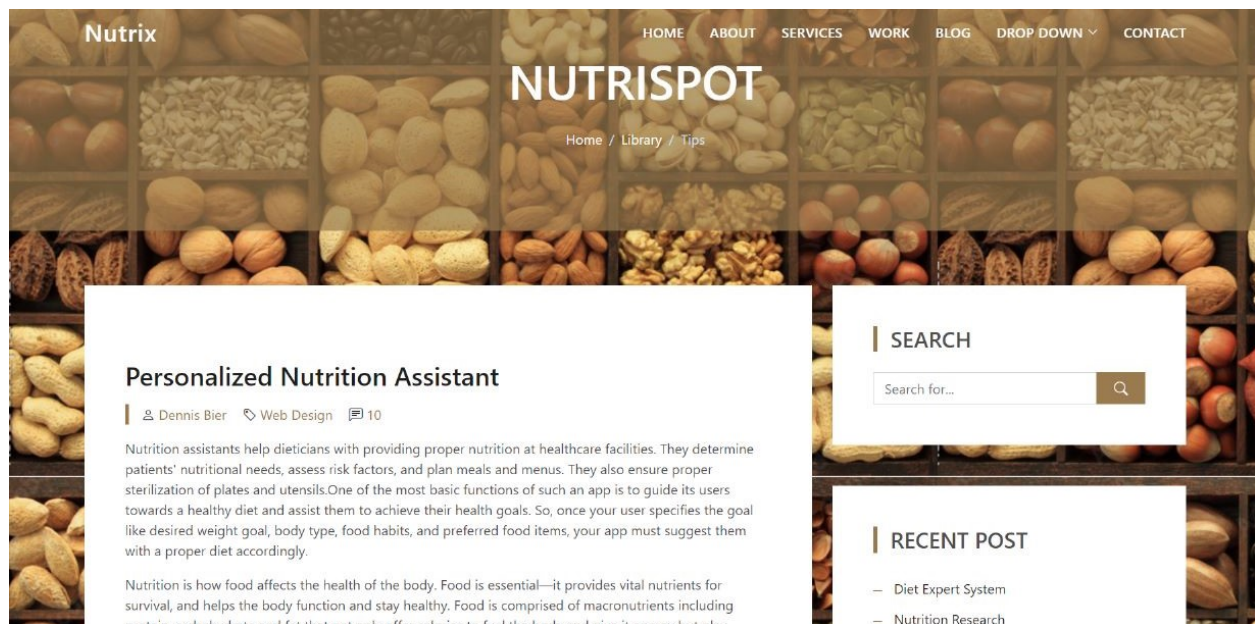

8.TESTING
8.1 TEST CASES

1. Login button click with wrong credentials entered.
2. Signup with already registered mail ID.
3. Signup with wrong form data entered.
4. Entering home page with logged out session.
5. Clicking home page buttons with logged out session.
6. Invalid data entered in change password page and requested for change in password.

8.2 USER ACCEPTANCE TESTING

S.NO	TEST CASE	REQUIRED OUTPUT	RESULT OUTPUT	STATUS
1	Login Button click with wrong credentials	Wrong Credentials enterd notification	Wrong Credentials entered notification	ACCEPTED
2	Signup with already registered mail ID	Email already registered notification	Email already registered notification	ACCEPTED
3	Signup with wrong form data entered	Wrong credentials entered notification	Wrong credentials entered notification	ACCEPTED
4	Entering home page with logged out session	Take user yo login page	Take user to login page	ACCEPTED
5	Clicking homepage buttons with logged out session	Take user to login page	Take user to login page	ACCEPTED
6	Invalid data entered in change password page and requested for change in password	Wrong form data entered notification	Wrong form data entered notification	ACCEPTED

9.RESULTS
9.1 PERFORMANCE METRICES

1. Planned value : Rs.4000

2. Actual value : Rs.1300

3. Hours worked : 50 hours

4. Stick to Timelines : 100%

5. Stay within budget : 100%

6. Consistency of the product : 75%

7. Efficiency of the product : 80%

8. Quality of the product : 80%

10.ADVANTAGES AND DISADVANTAGES
ADVANTAGES

1. Low cost.
2. Simple UI
3. Faster response due to single page web page.
4. Capability of adding many features with ease and less cost.

DISADVANTAGES :

1. Lack of efficiency .
2. Efficiency of the product needs to be improved.
3. Consistency of the product is not 100%.
4. Not a compact sized product. Size needs

CONCLUSION :

Dietary tracking is an essential task in chronic disease management and intervention. Food photo taking and image recognition significantly reduce the burden of food entering on personal mobile devices. In this work, we have developed a dietary tracking system that applies the deep based image recognition to accurately and efficiently log food and nutrition intake. Through real user food photo testing and user study, we found thatlaboratory modelsform the foundation of the solution but miss out some of the key challenges. The diversity of real food photos is higher than the lab trained model.Any ingredient based recognition is a promising way of tracking the free style and

homemade food recognition problems in which training data is sparse and not representative.Moreover, the proposed photo based portion selection method is shown to be more accurate and engages the users better than the existing methods.

FUTURE SCOPE:

In future we'll be adding more features which will benefit the users. The ui/ux of the web application will be improved. Scaling the project for more use cases and customers. Implementing distributed computing for efficient processing.Making encryption standard for cloud storage.

SOURCE CODE LINK

https://github.com/IBM-EPBL/IBM-Project-16200-1659609512

DEMO VIDEO LINK

https://youtu.be/FkJ1CNVLBA8