

Project report

IBM

Nutrition Assistant

[Modern Web Application]

IBM ID: PNT2022TMID28243

Project by,

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1.Introduction

1.1 Overview

As there is improvement in people's standards of living, 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. However, most of food packaging comes with nutrition labels, it's still not very convenient for people to refer.

Most people understand the repercussions of eating fast food but sometimes the repercussions are unexpected and may require the services of a personal injury lawyer. Most of my favorite foods cause weight gain and if eaten consistently, could lead to diabetes. In the last several years, there have been a handful of displeased fast-food eaters who took legal action against the fast-food chains to either make an easy buck or hold them accountable for their lousy products.

1.2 Purpose

The main purpose of this Web application is to help people know the nutrient value of the food they eat. This web app provides a service where the user can feed the food image/ food name/image URL and the app provides the nutrient value of the food. The user can also feed the daily consumption of food with time and date. Then he can access the food details whenever required. The nutrient details are also sent to the user mail.

This application can be used personally to take of one's health, recommended by hospitals or the doctors to track the user daily food consumption, We will know more about this further.

2. LITERATURE SURVEY

2.1 Existing problem

In this busy world people can't track the food they consume and it is difficult to find the nutrients of all the food they consume. Over consumption or under nutrition can lead to serious health issues. These may be calcium/ iron/vitamin deficiencies or the over consumption of carbohydrates and sugar that causes obesity and diabetes. Which may

further lead to serious health issues. There is urgent action required to maintain a balanced diet in order to have a good immunity.

2.2 Proposed solution

Our web app used the food image given by the user then processes that to the nutrient values of the food then displays to the user. These can reduce the user's effort to enter the food details. He can simply capture the food image and enter into the web app.

The user can enter the food details that he consumes daily on the basis of time and date of consumption. We then add the food details into the user table. The user can then go to the diary page and view the data entered by him between any particular dates. He can also view the aggregate nutrient details. We have provided an email service where users will get the aggregate nutrient details.

This application can be used on the recommendation of the doctor or the hospitals where one can track all the data that the patient consumed to track the nutrient details of the patient.

2.3 Problem Statement

Customer Problem Statement Template:

Create a problem statement to understand your customer's point of view. The Customer Problem Statement template helps you focus on what matters to create experiences people will love.

A well-articulated customer problem statement allows you and your team to find the ideal solution for the challenges your customers face. Throughout the process, you'll also be able to empathize with your customers, which helps you better understand how they perceive your product or service.

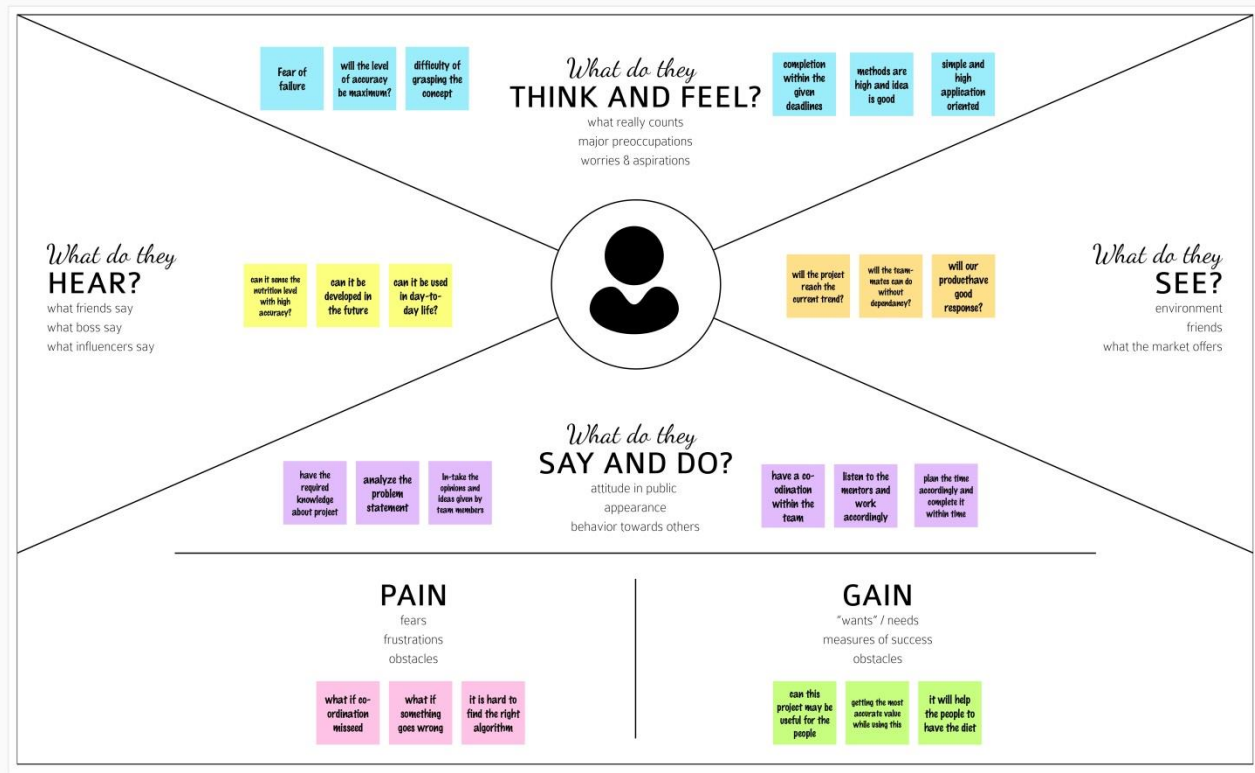
I am	<small>Describe customer with 3-4 key characteristics - who are they?</small>	Describe the customer and their attributes here
I'm trying to	<small>List their outcome or "job" the care about - what are they trying to achieve?</small>	List the thing they are trying to achieve here
but	<small>Describe what problems or barriers stand in the way - what bothers them most?</small>	Describe the problems or barriers that get in the way here
because	<small>Enter the "root cause" of why the problem or barrier exists - what needs to be solved?</small>	Describe the reason the problems or barriers exist
which makes me feel	<small>Describe the emotions from the customer's point of view - how does it impact them emotionally?</small>	Describe the emotions the result from experiencing the problems or barriers

Reference: <https://miro.com/templates/customer-problem-statement/>

3. IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas

Empathy Map Canvas



3.2 Ideation And Brain Storming


Brainstorm & Idea Prioritization Template:

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

Reference: <https://www.mural.co/templates/empathy-map-canvas>

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



Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

10 minutes to prepare
1 hour to collaborate
20 people recommended

Before you collaborate
A little bit of preparation goes a long way with this session. Have what you need ready to get going.

10 minutes

- Team gathering**
Outline who should be present in the session and send an invite. Share relevant information as pre-work ahead.
- Set the goal**
Think about the problem you're hoping to solve in the brainstorming session.
- Learn how to use the facilitation tools**
Use the "Get started" document to make a helpful pre-session session.

Open article

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

5 minutes

Preparation
Agreement: content exercise of 10-15 minutes to discuss and share ideas of a team and members of the organization.

Key rules of brainstorming
To turn a session into a productive session:

- Stop to sleep
- Don't judge
- Go for volume
- Encourage wild ideas
- Listen to others
- It's good to be silly

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm

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

10 minutes

TIP

You can select a sticky note and hit the pencil [switch to sketch] icon to start drawing!

ASHIFA SHERENE

Shopping section for scanned food is available for the users.	Giving recipes based on the food scanned.	Categorizing recipes based on cuisine.
Recommend to user based on their taste.	Shopping list organizer.	Healthiest suggestions based on their goals.
Integrating with a fitness tracker.	Linking a user's past nutrition facts to their activity.	Showing a nearby grocery store.

DEEBU RUBIYA

Monitoring weight and intake.	Incorporating health expert to select ideal food.	Defining goal on the user's objectives.
Health coach about diet plans.	No subscription.	By scanning the nutrition in photos.
Count the calories.	Get the weight and height in the profile.	Get the recommendation about the food by scanning.

ABURVA

Scanning the food.	Introducing additional facts of the scanned food.	Automatically generate diet plan.
Map users to see if the scanned data is the same as others.	It will also detect the content of the scanned image and generate a profile.	It provides the personal profile for the user.
Users can also scan the barcode of the scanned food.	Automatically generate diet plan.	Provides a reward for the personal profile.

MOHAMED THAHIR

Recommendation plans.	Giving energy warning.	Provide tips and Nutrition Plans.
Users can scan the barcode of the scanned food.	Energy levels are given according to their health.	Recommend the nutrition plan based on the user's goal.
A separate section for the scanned food.	It contains the scanned food.	It helps the user to follow a healthy diet.

Scanning the food.

nutritional facts of the scanned food.

food based on profile.

allergy warning.

themes within your mural.

Users count calories and see accurate nutrition information via a built in barcode scanner

Displaying whether the scanned food is suitable for the users.

It provides the personal profile for the user

It contains ranks and points to reward users for achievements such as achieving the nutritional goals.

BASED ON RECEIPE

Feedback section for the provided recipe

Giving recipes based on the food scanned.

Categorizing recipes based on cuisine.

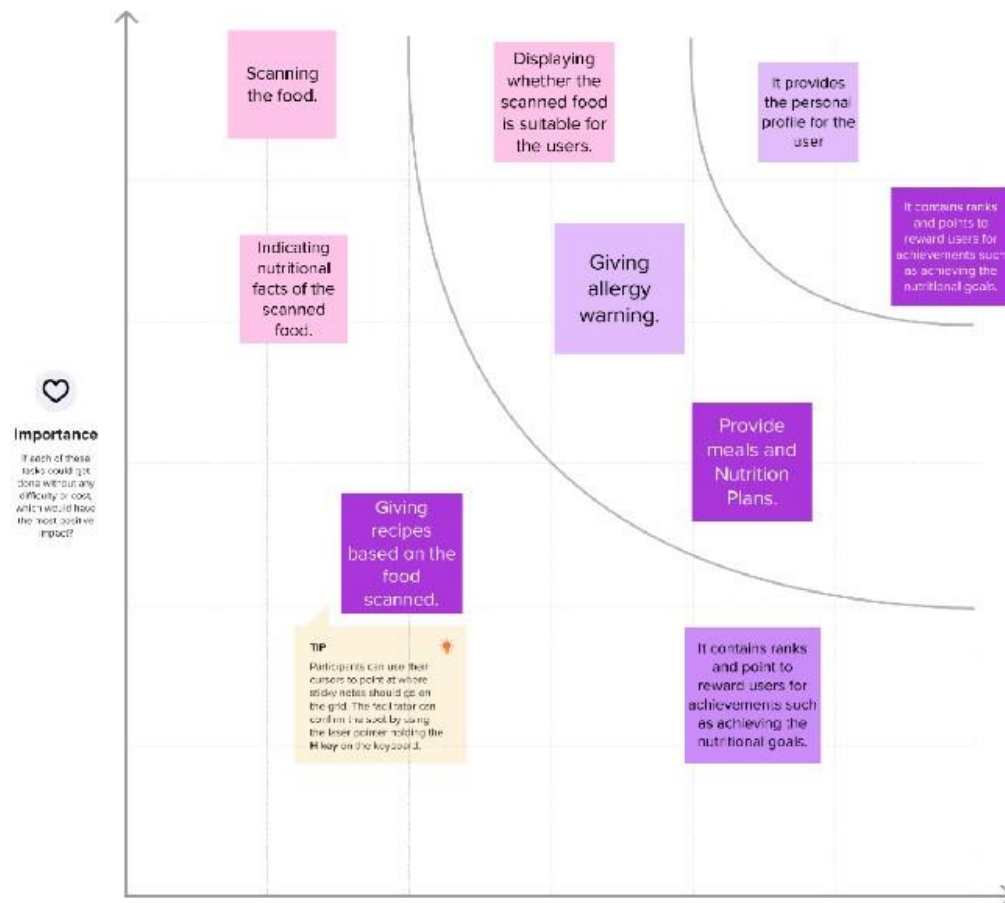
Provide meals and Nutrition Plans.

4

Prioritize

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

🕒 20 minutes



3.3 Proposed Solution:

Project Design Phase-I Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID28243
Project Name	Project–Cloud based Nutrition assistant application.
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Rate of Obesity are increasing at an high speed,due to the ignorance of the proper Nutrition foods, and this leads to 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,some food packaging has an added nutrition and calorie values,but it's not very comfortable to refer.
2.	Idea / Solution description	People can easily track the Nutrition and calories by scanning an real-time images of a food and examine it's nutritional content which will improves the dietary habits.Smart nutrition and foods can prevent diseases. This app will provide proper nutrition,helps in maintaining a healthy lifestyle and also recommended diet plans for users.
3.	Novelty / Uniqueness	This solution has the uniqueness that we can realize real time images of meal and can easily analyze its nutritional content. A web app that can automatically estimates food attributes such as ingredients and nutrition value by classifying the input image.
4.	Social Impact / Customer Satisfaction	The Obesity rate will get reduced and people can able to lead a healthy life. It helps achieve and maintain a healthy weight.
5.	Business Model (Revenue Model)	Social media is the best way to develop this application. This application will increase the confidence among the people. It is great to use, amazing convenience and also have subscription once user hit certain services.
6.	Scalability of the Solution	People can access from anywhere at anytime to track the calories and nutrition value that will improve a healthy eating pattern. This App will improves the dictary habits and helps in maintaining a healthy weight and healthy lifestyle.

3.4 Problem Solution

Project Title: Nutrition Assistant Application			Project Design Phase-I - Solution Fit Template			Team ID: PNT2022TMID32891								
Define CS, fit into CC			1. CUSTOMER SEGMENT(S) <div>CS</div> <p>All age group people who are careless about their health due to their busy schedule and intake of high-calorie diet.</p>			6. CUSTOMER CONSTRAINTS: <div>CC</div> <p>The customer should provide a clear image for knowing the nutrition content about the food. The app can't provide accurate result if the image is not clear. In some cases, the recipes may be allergic to their health.</p>			5. AVAILABLE SOLUTIONS: <div>PS</div> <p>Although the food packaging comes with nutrition (and calorie) labels, it's still not very convenient for people to refer to App-based nutrient dashboard systems.</p>			Explore AS, differentiate		
Focus on AS, fit into BE, understand RC			2. JOBS-TO-BE-DONE / PROBLEMS: <div>J&P</div> <p>The problems and pains of the user are obesity, fear of getting health related issues. They will get frustrated of not getting immediate result and difficult to do tedious work. Lack of confidence due to appearance.</p>			9. PROBLEM ROOT CAUSE: <div>RC</div> <p>It is easy to fall into a trap of eating unhealthy foods which is heavy in calories. Once the nutritional value is replaced by foods high in sugar, bad fats and salt it leads to various health issues so users need to control their daily calorie intake to lead a healthy lifestyle.</p>			7. BEHAVIOUR: <div>BE</div> <p>The behavioral changes in users reflect in their day- to-day life such as they will maintain a proper diet and follow the daily routine in eating and intake of healthy food. So, that it helps them to improve their health.</p>			Focus on AS, fit into BE, understand RC		
3. TRIGGERS: <div>TR</div> <p>Desire to live a healthy lifestyle. By knowing the success story of people who achieved their goal. By seeing people who are fit and healthy.</p>			10. YOUR SOLUTION: <div>SI</div> <p>The solution is user can know the nutritional content of the food they are taking, by taking picture of the food and uploading it in the app. Clarifai's AI-Driven Food Detection Model is used for getting accurate food identification and APIs to give the nutritional value of the identified food</p>			8.CHANNELS of BEHAVIOUR: <div>CH</div> <p>ONLINE: The application provides a user-friendly environment that enables users to interact through chatbot to clarify their queries and a dashboard is displayed to know the activities</p> <p>OFFLINE: Connecting all the users through offline meeting and giving some complimentary gifts. Conducting offline session by nutrition expert.</p>								
4. EMOTIONS: BEFORE / AFTER <div>EM</div> <p>They scared of declining health, so they get motivated towards eating healthy foods and move to healthy lifestyle.</p>														

4.REQUIREMENT ANALYSIS

4.1 Functional requirement

Following are the functional requirements of the proposed solution.

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

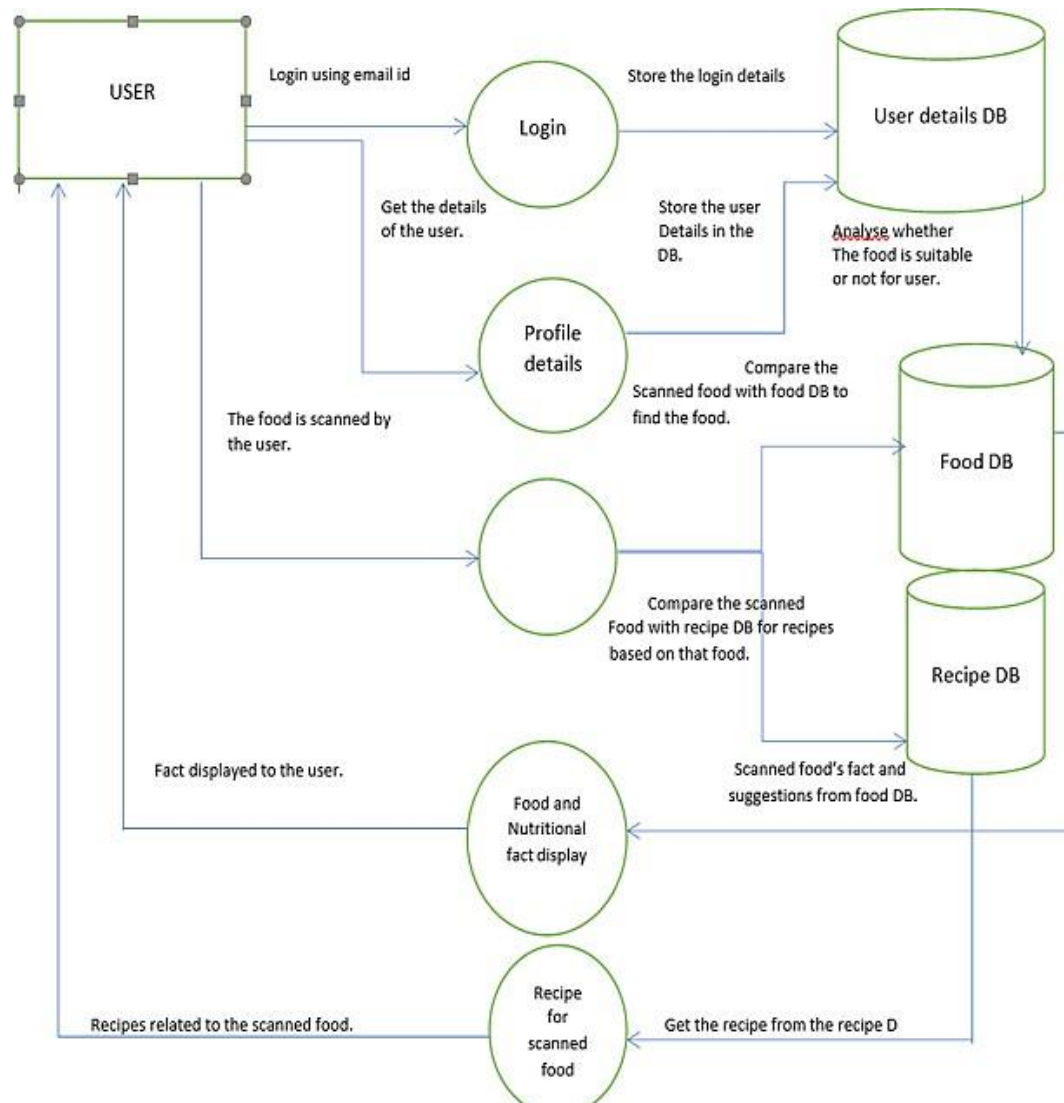
4.2 Non-Functional requirement

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

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.
NFR-6	Scalability	Provide horizontal or vertical scaling for higher workloads

5 PROJECT DESIGN

5.1 Data Flow Diagrams



5.2 Solution & Technical Architecture

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, Javascript, Flask, Python
2.	Application Logic-1 – Creating an account	User registers their personal details such as name, age, current weight etc. These details are stored in the IBM cloud DB2.	Flask App running using Kubernetes Cluster, IBM DB2
3.	Application Logic-2 – Logging in	Verify credentials and land the user to their home page. Perform OTP authentication if needed.	Flask App running using Kubernetes Cluster, IBM DB2
4.	Application Logic 3 – Creating a custom meal	User enters details/ingredients and amount required to make a certain meal. The total calorie count is shown once the user clicks 'finish meal'.	Flask App running using Kubernetes Cluster, IBM DB2
5.	Application Logic 4 – Purchasing Premium Subscription	User is redirected to payment portal to complete the purchase.	Flask App running using Kubernetes Cluster, IBM DB2
6.	Application Logic 5 – Image recognition	User can take or upload a picture to automatically detect a food item which is already available in the database.	Flask App running using Kubernetes Cluster, IBM DB2
7.	Application Logic 6 – Viewing Dashboard	User can track their past records and visualise their calorie consumption and analyse their trends.	Flask App running using Kubernetes Cluster, IBM DB2
8.	Application Logic 7 – Daily Reminders	Notification is sent to the User on a daily basis to remind them to add their daily consumption of food and track calories.	Flask App running using Kubernetes Cluster, IBM DB2
9.	Application Logic 8 – In-App Social Network	Users can add friends and set goals together. User can also post their progress and view others progress.	Flask App running using Kubernetes Cluster, IBM DB2
10.	Application Logic 9 – Blogs and Articles of Nutrition Experts	Articles and blogs by Nutrition experts are added periodically to the app for users to view.	Flask App running using Kubernetes Cluster, IBM DB2
11.	Application Logic 10- Setting a daily calorie limit	User is alerted if they under or over consume calories.	Flask App running using Kubernetes Cluster, IBM DB2
12.	Database	Data Type, Configurations etc.	MySQL
13.	Cloud Database	Database Service on Cloud	IBM DB2.
14.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem

15.	External API-1- SendGrid	The SendGrid service will be used to alert users of various notifications etc as defined by the user.	SendGrid
16.	External API-2- NutritionAPI	The service will be used for image recognition.	NutritionAPI
17.	Machine Learning Model	Pre trained model available through the API to recognise food items.	Object Recognition Model.
18.	Deployment	Application Deployment on Local System / Cloud Local Server Configuration: The application will run on the local server/client side to allow user to interact with Web UI. Cloud Server Configuration: The application will be hosted on the cloud for the user to use. This is done through containerization of the application using Docker, stored in the container registry, and will be run by Kubernetes.	IBM Cloud Registry, IBM Cloud Object Storage, IBM DB2, Docker, Kubernetes

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask	Backend Framework built on python.
2.	Security Implementations	TLS- Transport Layer Security	All external communications is encrypted and user data is protected.
3.	Scalable Architecture	The containerised app can be scaled easily to a large user base.	IBM DB2, IBM Cloud Object Storage, Kubernetes
4.	Availability	IBM Cloud guarantees availability with very minimal downtime. The app loses minimal functionality if the external APIs are not available.	IBM Cloud Object Storage, Kubernetes, Docker Images, IBM DB2, SendGrid
5.	Performance	Performance depends on the availability of compute power in the cloud.	IBM Cloud Object Storage, Kubernetes, Docker Images, IBM DB2, SendGrid

5.3 User Stories

User Stories						
User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
	Login	USN-3	As a user, I can log into the application by entering email & password	I can access the Dashboard and the application.	High	Sprint-1
Customer (Web user)	Upload Photo	USN-4	As a <u>user</u> , I can upload the food photo.	I can get the nutrition details.	High	Sprint-1
Administrator	User details	USN-5	As a <u>user</u> , I can fill the Details.	I can get whether the scanned food is suitable or not.	High	Sprint-2
	Push notification	USN-6	As a user, I will search the food items.	I can get the notification, related to my search.	High	Sprint-3
	Shown the nutrition details	USN-7	As a user, I can scan the food.	I can get the nutrition details of the scanned food.	High	Sprint-4
	Receipt shown	USN-8	As a user, I want to get the receipt for the scanned food.	I can get the receipt about the food.	Low	Sprint-4

Use the below template to list all the user stories for the product.

6.PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority
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
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password	1	High
Sprint-2	User details	USN-4	As a user, I can fill the Details.	2	High
Sprint-3	Push notification	USN-5	As a user, I will search the food items.	2	Medium
Sprint-4	Shown the nutrition details and Recipe for	USN-6	As a user, I can scan the food and get the nutrition details and recipe for related scanned	1	High

6.2 Sprint Delivery Schedule:

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date(Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date(Actual)
Sprint -1	20	6 Days	30 Oct 2022	05 Nov 2022	20	05 Oct 2022
Sprint -2	20	6 Days	05 Nov 2022	07 Nov 2022	10	07 oct 2022
Sprint -3	20	6 Days	07 Nov 2022	12 Nov 2022	10	12 oct 2022
Sprint -4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 nov 2022

Velocity:

Lets calculate team , s average velocity per iterationunit (story points per day)

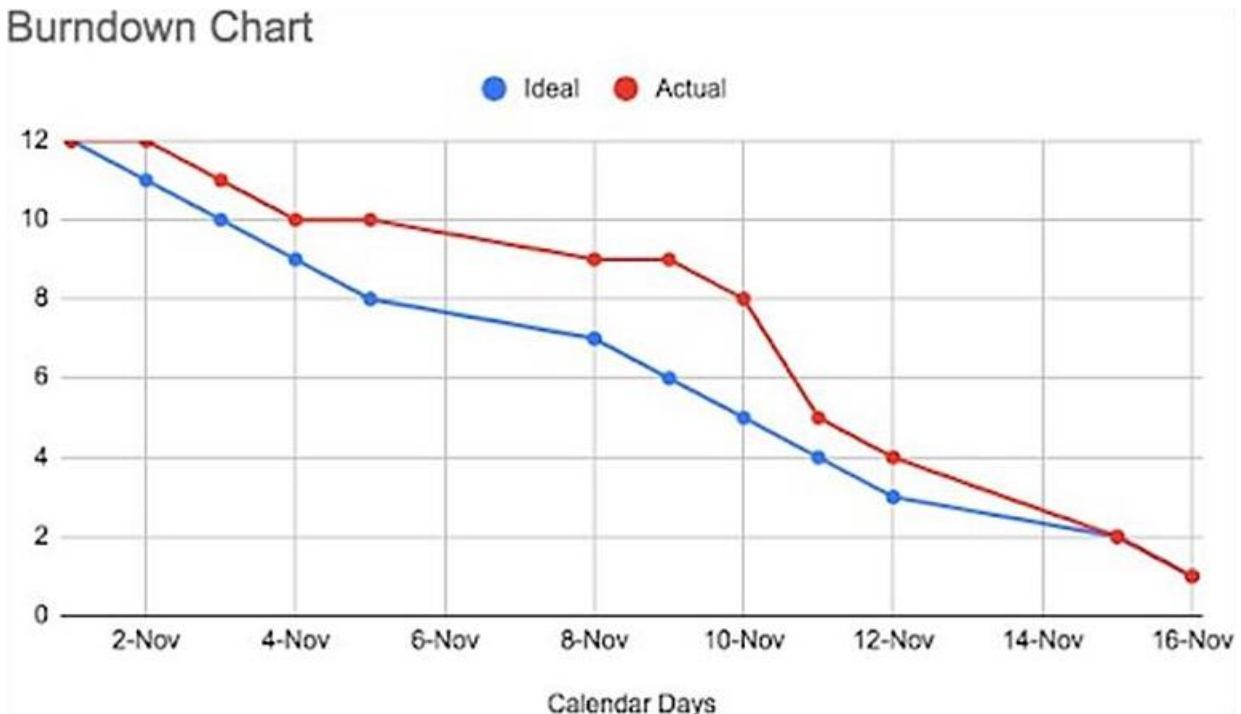
AV= VELOCITY /SPRINT DURATION

$$AV=20/6$$

$$AV=3.33$$

Burndown Chart:

Burndown Chart



7 CODING & SOLUTIONING

LOGIN:

```
<html>
<head>
  <link rel="stylesheet" href="stylee.css">
</head>
<body>
  <div class="container">
    <div class="card">
      <div class="inner-box" id="card">
        <div class="card-front">
          <h2>LOGIN</h2>
          <form>
            <input type="email" class="input-box" placeholder="your Email Id " required>
            <input type="password" class="input-box" placeholder="password" required>
            <button type="submit" class="submit-btn">submit</button>
            <input type="checkbox"><span>Remember Me</span>
          </form>
```

```

<button type="button" class="btn" onclick="openSignup()">I'm New Here</button>
  <a href="">Forget Password</a>
</div>
<div class="card-back">
  <h2>SIGNUP</h2>
  <form>
    <input type="text" class="input-box" placeholder="Your Name" required>
    <input type="email" class="input-box" placeholder="your Email Id " required>
    <input type="password" class="input-box" placeholder="password" required>
    <button type="submit" class="submit-btn"><a href="registrationform.html">submit</button>
    <input type="checkbox"><span>Remember Me</span>
  </form>
  <button type="button" class="btn" onclick="openLogin()">I've an account</button>
  <a href="">Forget Password</a>

  </div>
</div>
</div>
</div>

<script>
  var card = document.getElementById("card");
  function openSignup(){
    card.style.transform = "rotateY(-180deg)";
  }
  function openLogin(){ card.style.transform =
    "rotateY(0deg)";
  }
</script>
</body>
</html>
STYLE.CSS
*{
  margin: 0;
  padding: 0;

```

```

}
.container{ width:
  100%; height:
  100vh;
  font-family: sans-serif; background:
  rgba(187,187,245);color: #fff;
  display: flex;
  align-items: center;
  justify-content: center;
}
.card{
  width: 350px;
  height: 500px;
  box-shadow: 0 0 40px 20px rgba(0,0,0,0.26);
  perspective: 1000px;
}
.inner-box{ position:
  relative; width:
  100%;
  height: 100%;
  transform-style: preserve-3d;
  transition: transform 1s;
}
.card-front,.card-back{
  position: absolute;
  width: 100%;
  height: 100%;
  background-position: center;
  background-size: cover;
  background-image: linear-
gradient(rgba(0,0,100,0.8),rgba(0,0,100,0.8)),url(background.png); padding: 55px;
  box-sizing: border-box;
  backface-visibility: hidden;
}
.card-back{
  transform: rotateY(180deg);
}
.card h2{
  font-weight: normal;
  font-size: 24px;
  text-align: center;
  margin-bottom: 20px;
}
.input-box{
  width: 100%;
  background: transparent;

```

```

border: 1px solid #fff;
margin: 6px 0; height:
32px;
border-radius: 20px;
padding: 0 10px;
box-sizing: border-box;
outline: none;
text-align: center;
color: #fff;
}
::placeholder{
color: #fff;
font-size: 12px;
}
button{
width: 100%; background:
transparent; border: 1px solid
#fff; margin: 35px 0 10px;
height: 32px;
font-size: 12px; border-
radius: 20px; padding: 0
10px;
box-sizing: border-box;
outline: none;
color: #fff;
cursor: pointer;
}
.submit-btn{ position:
relative;
}
.submit-btn::after{
content: '\27a4';
color: #333;
line-height: 32px;
font-size: 17px;
height: 32px; width:
32px;
border-radius: 50%;
background: #fff;
position: absolute;
right: -1px;
top: -1px;
}
span{
font-size: 13px;
margin-left: 10px;
}
.card, btn{

```

```

margin-top: 70px;
}
.card a{ color:
#fff;
text-decoration: none;
display

```

HOME.HTML

```

<!DOCTYPE html>
<html lang="en">
<head>
<title>Nutrition Assistant Application</title>
<meta content="PlateJoy is your personal meal planning assistant,
providing custom meal plans and recipes. Start your free trial to enjoy
recipes tailored to your preferences and needs." name="description">
<meta charset="utf-8">
<link href="/favicon.png" rel="shortcut icon" type="image/png">
<link href="/apple-touch-icon.png" rel="apple-touch-icon">
<link href="/apple-touch-icon.png" rel="shortcut-icon">
<meta name="csrf-param" content="authenticity_token" />
<meta name="csrf-token"
content="MXoBupivoElcosJZYNT7pwHzKgQbcwooENsZ8UjFlch
bgXsuxVHqISqrwOqmsadk_PCfrEpHxv3vgepPZgK5EQ" />
<meta content="4.76.00" name="app-version">
<meta content="width=device-width, initial-scale=1, maximum-scale=5,
minimum-scale=1, user-scalable=yes" name="viewport">
<style type='text/css'>.preampjs[data-preamp], .fusejs[data-fuse]
{opacity: 0 !important}</style>
<script>
!function(c,o,h,e,s,i,o,n){var d='documentElement';var
a='className';h[d][a]+=' preampjs fusejs';
n.k=e;co._Cohesion=n;co._Preamp={k:s,start:new
Date};co._Fuse={k:i};co._Tagular={k:o};

```



```
[e,s,i,o].map(function(x){co[x]=co[x]||function(){(co[x].q=co[x].q||[]
).push([].slice.call(arguments))}});
```

```
h.addEventListener('DOMContentLoaded',function(){co.setTimeout(function(){
  var u=h[d][a];h[d][a]=u.replace(/?preampjs|?fusejs/g,""),3e3);
co._Preamp.docReady=co._Fuse.docReady=!o});var
z=h.createElement('script');
```

```
z.async=1;z.src='https://cdn.cohesionapps.com/cohesion/cohesion-
health.min.js';h.head.appendChild(z);}
(window,document,'cohesion','preamp','fuse','tagular',{
```

```
tagular:{writeKey:"wk_1wdlMBol954X8sRkq2Hb9UwTNRV",sourc
eKey:"src_1wdlM7mTsZtqLAea5Lkl1m2xeM1", authCookie: 'tglr_auth_id'},
  preamp:{siteId:"3HJazcKhTFRMXQoiSjG2G",
endpoint:"https://api.hc.preamp.io/api/v1"},
  consent:{required:false}
})
```

```
</script>
```

```
<script> window.watsonAssistantChatOptions =
{
```

```
  integrationID: "abe24b4e-b51e-4do4-b4da-25d1c92e3of8", //The ID of
this integration.
```

```
  region: "us-south", // The region your integration is hosted in.
```

```
  serviceInstanceID: "3472a41d-ba5c-4d8o-883b-
9431e182a988", // 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>
```

```
<script src="https://browser.sentry-cdn.com/6.10.0/bundle.min.js"  
integrity="sha384-  
nslkfmMhouiqg+AwegHcT1SMiPNWnhZmjFDwTshLTxur6ZPN  
GT8vwT+vHwI5Jag" crossorigin="anonymous"></script>
```

```
<script>  
  Sentry.init({  
    dsn:  
'https://908471f316134004bcec6690f8c80eoe@sentry.io/273538',  
    environment: 'production',  
    release: '5.24.00',  
    ignoreUrls: [/cdn\.mxpnl\.com/, /cdn\.segment\.com/],  
    ignoreErrors: [  
      /^twtr is not defined$/,  
      /\$ is not defined$/,  
      /^jQuery is not defined$/,  
      /^Can't find variable: \$$/,  
      /^ResizeObserver loop limit exceeded$/,  
      /^null is not an object \((evaluating  
'document\.body\.childNodes')\)$/,
```

```
      // begin: user does early page cancel  
      // see https://stackoverflow.com/questions/55738408/javascript-  
typeerror-cancelled-error-when-calling-fetch-on-ios  
      /^TypeError: NetworkError when attempting to fetch  
resource$/, // firefox  
      /^TypeError: Failed to fetch$/, // chrome
```

```
    /^TypeError: cancelled$/, // safari
    // end: user does early page cancel
  ],
  tracesSampleRate: 1.0,
});
</script>
```

```
<noscript>
<style>
.yesscript {
  display: none !important;
}
</style>
</noscript>
```

```
<link rel="stylesheet" media="all" href="background.jpg" />
<script src="background.jpg"></script>
</head>
<body class="static pages home pages-home not-mobile-app">
<header class="non-printer-only">
<a aria-label="Skip to Main Content" class="sr-only"
href="#main">&nbsp;</a>
```

```
<div class="logo-wrap">
<h3 align="left">Nutrition Assistant</h3>
<i aria-label="PlateJoy Health"></i>
</div>
<nav aria-label="Secondary" class="secondary">
<ul>
<li class="tablet-plus-only">
<a class="home" href="/">Home</a>
</li>
</ul>
</nav>
</header>
```

```
<main id="main">
```

```

<section class="hero swoosh-hero-image">
<div class="image">
<div class="swoosh"></div>
<div class="content">
<h1>Healthy Eating <br class="tablet-plus-only">for BusyPeople</h1>
<div class="subtext">Food Scanner, <br class="sub-tablet- only">personalized
recipes and <br class="sub-tablet- only">grocery <br class="tablet-plus-
only">lists to help you save
<br class="sub-tablet-only">time and eat better</div>
<a class="btn btn-cta start-free-trial-cta" href="login.html">login</a>
</div></div>
</section>

```

```

<section class="steps">
<div class="content">
<div class="ul"><div class="li"><div class="image utensils">
<h2 class="h3">Recipes<br class="non-mobile-only"></h2>
<div>We suggest you the tasty and healthy recipe.</div></div><div
class="li"><div class="image list"></div>
<h2 class="h3">Scanning the <br class="non-mobile-only">food</h2>
<div>You can find the nutritional fact by Scanning the food
easily.</div></div><div class="li"><div class="image delivery- truck"></div>
<h2 class="h3">Smart grocery <br class="non-mobile-only">list</h2>
<div>Our digital pantry takes into account what you have in your kitchen to
reduce food waste and save money.</div></div></div>
</div></div>
</section>

```

```

<section class="as-seen-in">
<div class="swoosh top"></div>
<div class="swoosh bottom"></div>
<div class="content">

```

```
<h2>Join Thousands of <br>People Eating Better</h2>
<ul class="testimonials">
<li>
</main>
```

UPLOAD PAGE:

```
<!DOCTYPE html>
<!-- Created By CodingNepal -->
<html lang="en" dir="ltr">
  <head>
    <meta charset="utf-8">
    <title>Preview Image Before Upload | CodingNepal</title>
    <link rel="stylesheet" href="style for naa.css">
    <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.15.3/css/all.min.css"/>
  </head>
  <body>
    <div class="wrapper-name">
      <div class="input-data">
        <input type="text">
        <label>ENTER THE INGREDIENTS</label>
      </div>
    </div>
    <div class="container">
      <div class="wrapper">
        <div class="image">
          <img src="" alt="">
        </div>
        <div class="content">
          <div class="icon">
            <i class="fas fa-cloud-upload-alt"></i>
          </div>
          <div class="text"> No
            file chosen, yet!
```

```

        </div>
    </div>
    <div id="cancel-btn">
        <i class="fas fa-times"></i>
    </div>
    <div class="file-name">File
        name here
    </div>
</div>
<button onclick="defaultBtnActive()" id="custom-
btn">Choose a file</button>
<input id="default-btn" type="file" hidden>
<button id="custom-btn" align="center">SUBMIT</button>

</div>
<script>
    const wrapper = document.querySelector(".wrapper"); const
    fileName = document.querySelector(".file-name"); const defaultBtn
    = document.querySelector("#default-btn");const customBtn =
    document.querySelector("#custom-
btn");
    const cancelBtn = document.querySelector("#cancel-btn i");const img =
    document.querySelector("img");
    let regExp = /[0-9a-zA-Z\^\&\@\{\}\[\]\$\=\!\-
\#\(\)\.\%\+\~\_ ]+$/;
    function defaultBtnActive(){
        defaultBtn.click();
    }
    defaultBtn.addEventListener("change", function(){const file =
    this.files[0];
    if(file){
        const reader = new FileReader();
        reader.onload = function(){ const
        result = reader.result; img.src = result;
        wrapper.classList.add("active");
        }
        cancelBtn.addEventListener("click", function(){

```

```

        img.src = "";
        wrapper.classList.remove("active");
    })
    reader.readAsDataURL(file);
}
if(this.value){
    let valueStore = this.value.match(regExp);
    fileName.textContent = valueStore;
}
});
</script>
</body>
</html>
STYLE:
@import url('https://fonts.googleapis.com/css?family=Poppins:400,500,600,700&display=swap');
*{
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    font-family: 'Poppins', sans-serif;
}
html,body{
    display: grid;
    height: 100%;
    place-items: center;
    text-align: center;
    background: linear-gradient(-135deg, #c850co,#4158do);
}
.wrapper-name{
    margin: 0 auto;
    width: 450px;
    background: #fff;
    padding: 30px;
    box-shadow: 0px 0px 10px rgba(0,0,0,0.1);
}
.wrapper-name .input-data{

```

```
    height: 20px; width:
    100%; position:
    relative;
}
.wrapper-name .input-data input{
    height: 40px;
    width: 100%;
    border: none;
    font-size: 17px;
    border-bottom: 2px solid silver;

}
.wrapper-name .input-data label{
    position: relative;
    bottom: 60px;
    left: 0px;
}
.container{
    height: 350px;
    width: 430px;
    position: relative;
}
.container .wrapper{
    position: relative;
    height: 200px; width:
    70%;
    border-radius: 10px;
    background: #fff;
    border: 2px dashed #c2cdda;
    display: flex;
    align-items: center;
    justify-content: center;
    overflow: hidden;
}
.wrapper.active{
    border: none;
}
.wrapper .image{
```



```
    position: absolute;
    height: 100%;
    width: 100%;
    display: flex;
    align-items: center;
    justify-content: center;
  }
  .wrapper img{
    height: 100%;
    width: 100%;
    object-fit: cover;
  }
  .wrapper .icon{ font-
    size: 100px;color:
    #9658fe;
  }
  .wrapper .text{ font-
    size: 20px; font-
    weight: 500;color:
    #5B5B7B;
  }
  .wrapper #cancel-btn i{
    position: absolute; font-
    size: 20px;
    right: 15px; top:
    15px; color:
    #9658fe;cursor:
    pointer;display:
    none;
  }
  .wrapper.active:hover #cancel-btn i{
    display: block;
  }
  .wrapper #cancel-btn i:hover{
    color: #e74c3c;
  }
  .wrapper .file-name{
    position: absolute;
```

```
    bottom: 0px;
    width: 100%;
    padding: 8px 0;
    font-size: 18px;
    color: #fff;
    display: none;
    background: linear-gradient(135deg, #3a8ffe 0%, #9658fe 100%);
}
.wrapper.active:hover .file-name{
    display: block;
}
.container #custom-btn{
    margin-top: 30px; display:
    block;
    width: 50%;
    height: 50px;
    border: none;
    outline: none;
    border-radius: 25px;
    color: #fff;
    font-size: 18px; font-
    weight: 500; letter-
    spacing: 1px;
    text-transform: uppercase;
    cursor: pointer;
    background: linear-gradient(135deg, #3a8ffe 0%, #9658fe 100%);
    justify-content: center;
}
```

REGISTRATION:

```
<!DOCTYPE html>
<html>
<head>
<title>User Details</title>
<link rel="stylesheet" href="profilestyle.css">
</head>
<body>
```

```
<div class="container" style="color:black">
<div class="card">
  <h1><center>PROFILE</center></h1>
<label for="Username"><b>Username:</b></label>
  <input type="text" class="input-box" placeholder="Please enter your
name" name="username" id="username" required>
<br>
  <label for="height"><b>Height:</b></label>
  <input type="number" class="input-box" placeholder="Please enter your
Height in cm" name="height" id="height" required>
<br>

  <label for="weight"><b>Weight:</b></label>
  <input type="number" class="input-box" placeholder="Please enter your
Weight in kg" name="weight" id="weight" required>
  <br>
  <label for="Age"><b>Age:</b></label>
  <input type="number" class="input-box" placeholder="Please enter your
Age" name="weight" id="weight" required>
  <br>
  <label for="illness"><b>Illness:</b></label>
  <input type="text" class="input-box" placeholder="Please enter your
body illness" name="illness" id="illness" required>
<br>
  <label for="gender"><b>Gender:</b></label><br>
  <input type="radio" class="choice-box" id="male" name="gender"
value="Male">
  <label for="male">Male</label><br>
  <input type="radio" class="choice-box" id="female" name="gender"
value="Female">
  <label for="female">Female</label><br>
  <input type="radio" class="choice-box" id="others" name="gender"
value="Others">
  <label for="others">Others</label>
<br>

  <label for="allergy"><b>Allergies(in case):</b></label>
```

```
<input type="text" class="input-box" placeholder="Please enter  
your allergy " name="allergy" id="allergy" required>  
<br>
```

```
<center><button type="submit" class="submitbtn"><a  
href="mainpage for NAA.html">Submit</button></center>  
</div>  
</div>  
</body>  
</html>
```

PROFILE STYLE:

```
*{  
margin:0;  
padding:0;  
}  
.container{  
width:100%;  
height:100vh;  
font-family:sans-serif;  
background:#FFE4C4;  
color:#fff; display:flex;  
align-items:center;  
justify-content:center;  
}  
.card{  
width:350px;  
height:500px;  
box-shadow: 0 0 40px 20px rgba(0,0,0,0.26);  
background:#FFE4C4;  
  
}  
.input-box{ width:95%;  
border:1px solid #fff;  
margin:6px 0;
```

```

height:32px;
border-radius:20px;
padding:0 10px;
box-sizing:border-box;
outline:none;
text-align:center;
}

```

MAINPAGE.HTML:

```

<!DOCTYPE html>
<html lang="en">
<head>
<title>Nutrition Assistant Application</title>
<meta content="PlateJoy is your personal meal planning assistant,
providing custom meal plans and recipes. Start your free trial to enjoy
recipes tailored to your preferences and needs." name="description">
<meta charset="utf-8">
<link href="/favicon.png" rel="shortcut icon" type="image/png">
<link href="/apple-touch-icon.png" rel="apple-touch-icon">
<link href="/apple-touch-icon.png" rel="shortcut-icon">
<meta name="csrf-param" content="authenticity_token" />
<meta name="csrf-token"
content="MXoBupivoElcosJZYNT7pwHzK9QbcwooENsZ8UjF1ch
bgXsuxVHqlSqrwOqmsadk_PCfrEpHxv3vgPZ9K5EQ" />
<meta content="4.76.00" name="app-version">
<meta content="width=device-width, initial-scale=1, maximum-scale=5,
minimum-scale=1, user-scalable=yes" name="viewport">
<style type="text/css">.preampjs[data-preamp], .fusejs[data-fuse]
{opacity: 0 !important}</style>
<script>
!function(c,o,h,e,s,i,o,n){var d='documentElement';var
a='className';h[d][a]+=' preampjs fusejs';
n.k=e;co._Cohesion=n;co._Preamp={k:s,start:new
Date};co._Fuse={k:i};co._Tagular={k:o};

[e,s,i,o].map(function(x){co[x]=co[x]||function(){(co[x].q=co[x].q||[]
).push([].slice.call(arguments))}});

```

```

h.addEventListener('DOMContentLoaded',function(){co.setTimeout(function(){
  var u=h[d][a];h[d][a]=u.replace(/?preampjs|?fusejs/g,""),3e3);
co._Preamp.docReady=co._Fuse.docReady=!o});var
z=h.createElement('script');

z.async=1;z.src='https://cdn.cohesionapps.com/cohesion/cohesion-
health.min.js';h.head.appendChild(z);}
(window,document,'cohesion','preamp','fuse','tagular',{
tagular:{writeKey:"wk_1wdlMBol954X8sRkq2HbgUwTNRV",sourc
eKey:"src_1wdlM7mTsZtqLAea5Lkl1m2xeM1", authCookie: 'tglr_auth_id'},
  preamp:{siteId:"3HJazcKhTFRMXQoiSjG2G",
endpoint:"https://api.hc.preamp.io/api/v1"},
  consent:{required:false}
})
</script>

```

```

<script src="https://browser.sentry- cdn.com/6.10.0/bundle.min.js"
integrity="sha384-
nslkfmMhouiqg+AwegHcT1SMiPNWnhZmjFDwTshLTxur6ZPNa
GT8vwT+vHwI5Jag" crossorigin="anonymous"></script>

```

```

<script>
  Sentry.init({
    dsn:
'https://908471f316134004bcec669of8c8oeoe@sentry.io/273538',
    environment: 'production',

```

```

release: '5.24.00',
ignoreUrls: [/cdn\.mxpnl\.com/, /cdn\.segment\.com/],
ignoreErrors: [
  /^twtr is not defined$/,
  /\$ is not defined$/,
  /^jQuery is not defined$/,
  /^Can't find variable: \$$/,
  /^ResizeObserver loop limit exceeded$/,
  /^null is not an object \((evaluating
'document\.body\.childNodes')\)$/,

  // begin: user does early page cancel
  // see https://stackoverflow.com/questions/55738408/javascript-
  // typeerror-cancelled-error-when-calling-fetch-on-ios
  /^TypeError: NetworkError when attempting to fetch
resource$/, // firefox
  /^TypeError: Failed to fetch$/, // chrome
  /^TypeError: cancelled$/, // safari
  // end: user does early page cancel
],
tracesSampleRate: 1.0,
});
</script>

```

```

<noscript>
<style>
.yesscript {
  display: none !important;
}
</style>
</noscript>

```

```

<link rel="stylesheet" media="all"
href="https://static.platejoy.com/assets/v4_landing_pages/appli cation-

```

```
2e424c82369d08364b98218321c17b56dad5257a95c5a5fdaob4
c77530036cb8.css" />
<script src="https://www.googleoptimize.com/optimize.js?id=OPT-
WPTFGRZ"></script>
</head>
<body class="static pages home pages-home not-mobile-app">
<header class="non-printer-only">
<a aria-label="Skip to Main Content" class="sr-only"
href="#main">&nbsp;</a>

<div class="logo-wrap">
<h3 align="left">Nutrition Assistant</h3>
<i aria-label="PlateJoy Health"></i>
</div>
<nav aria-label="Secondary" class="secondary">
<ul>
<li class="tablet-plus-only">
<a class="home" href="/">Home</a>
</li>
</ul>
</nav>
</header>

<main id="main">
<section class="hero swoosh-hero-image">
<div class="image"></div>
<div class="swoosh"></div>
<div class="content">
<h1>Healthy Eating <br class="tablet-plus-only">for BusyPeople</h1>
<div class="subtext">Food Scanner, <br class="sub-tablet- only">personalized
recipes and <br class="sub-tablet- only">grocery <br class="tablet-plus-
only">lists to help you save
<br class="sub-tablet-only">time and eat better</div>
<a class="btn btn-cta start-free-trial-cta" href="upload file for
naa.html">UPLOAD PHOTO</a>
</div>
```


</section>

```
<section class="steps">
<div class="content">
<div class="ul"><div class="li"><div class="image utensils"></div>
<h2 class="h3">Recipes<br class="non-mobile-only"></h2>
<div>We suggest you the tasty and healthy recipe.</div></div><div
class="li"><div class="image list"></div>
<h2 class="h3">Scanning the <br class="non-mobile-only">food</h2>
<div>You can find the nutritional fact by Scanning the food
easily.</div></div><div class="li"><div class="image delivery- truck"></div>
<h2 class="h3">Smart grocery <br class="non-mobile-only">list</h2>
<div>Our digital pantry takes into account what you have in your kitchen to
reduce food waste and save money.</div></div></div>
</div>
</section>
```

```
<section class="as-seen-in">
<div class="swoosh top"></div>
<div class="swoosh bottom"></div>
<div class="content">
<h2>Join Thousands of <br>People Eating Better</h2>
<ul class="testimonials">
<li>
</main>
```

APP.PY:

```
from flask import Flask, render_template, request, redirect,url_for, session
import ibm_db
import re
from prettytable import from_db_cursorapp
```

```
= Flask(__name__)
```

```
app.secret_key = 'a'
```

```
conn = ibm_db.connect('DATABASE=bludb;HOSTNAME=baggage6-  
d59e-4883-8fco-  
d6a8c9f7ao8f.c1ogj3sdotgtuolqdeo0.databases.appdomain.clou  
d;PORT=31321;SECURITY=SSL;SSLServerCertificate=DigiCertGl  
obalRootCA.crt;UID=cgm44134;PWD=pbnfcEGlumRQcMHo;',',')
```

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

```
@app.route('/signup', methods=['GET', 'POST'])def  
signup():  
    msg = "  
    if request.method == 'POST' : username =  
        request.form['username']email =  
        request.form['email'] password =  
        request.form['password']  
        sql = "SELECT * FROM signup WHERE username =?"stmt =  
        ibm_db.prepare(conn, sql)  
        ibm_db.bind_param(stmt,1,username)  
        ibm_db.execute(stmt)  
        account = ibm_db.fetch_assoc(stmt)print(account)  
        if account:  
            msg = 'Account already exists !'  
        elif not re.match(r'^@]+@^[^@]+\.[^@]+' , email):  
            msg = 'Invalid email address !'  
        elif not re.match(r'[A-Za-z0-9]+' , username):  
            msg = 'name must contain only characters and numbers !'else:  
            insert_sql = "INSERT INTO signup VALUES(?, ?, ?)"  
            prep_stmt = ibm_db.prepare(conn, insert_sql)  
            ibm_db.bind_param(prepare_stmt, 1, username)  
            ibm_db.bind_param(prepare_stmt, 2, email)  
            ibm_db.bind_param(prepare_stmt, 3, password)
```

```

        ibm_db.execute(prepare_stmt)
        msg = 'You have successfully signed up!'
        return render_template('register.html', msg=msg) elif
request.method == 'POST':
    msg = 'Please fill out the form !'
    return render_template('signup.html', msg=msg)

```

```

@app.route('/login', methods=['GET', 'POST'])def
login():
    global userid
    msg = ""
    if request.method == 'POST' : email
        = request.form['email']
        password = request.form['password']
        sql = "SELECT * FROM signup WHERE email =? AND
password=?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt,1,email)
        ibm_db.bind_param(stmt,2,password)ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)print
(account)
        if not(account): session['loggedin'] =
            True session['id'] = account['EMAIL']
            userid= account['EMAIL']
            session['email'] = account['EMAIL']msg
            = 'Logged in successfully !'
            return render_template('home.html', msg = msg)else:
                msg = 'Incorrect username / password !' return
render_template('login.html', msg = msg)

```

```

@app.route('/register', methods=['GET', 'POST'])def
register():
    msg = ""

```

```

if request.method == 'POST':
    username = request.form['username']
    height = request.form['height']
    weight = request.form['weight']
    age = request.form['age']
    illness = request.form['illness']
    gender = request.form['gender']
    allergies = request.form['allergy']
    sql = "SELECT * FROM profile WHERE username =?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt, 1, username)
    ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
    if not(account):
        insert_sql = "INSERT INTO profile VALUES (?, ?, ?, ?, ?, ?, ?)"
        prep_stmt = ibm_db.prepare(conn, insert_sql)
        ibm_db.bind_param(prep_stmt, 1, username)
        ibm_db.bind_param(prep_stmt, 2, height)
        ibm_db.bind_param(prep_stmt, 3, weight)
        ibm_db.bind_param(prep_stmt, 4, age)
        ibm_db.bind_param(prep_stmt, 5, illness)
        ibm_db.bind_param(prep_stmt, 6, gender)
        ibm_db.bind_param(prep_stmt, 7, allergies)
        ibm_db.execute(prep_stmt)
        msg = 'You have successfully registered !'
        return render_template('main.html', msg = msg)
    elif request.method == 'POST':
        msg = 'Please fill out the form !'
        return render_template('register.html', msg = msg)

```

```

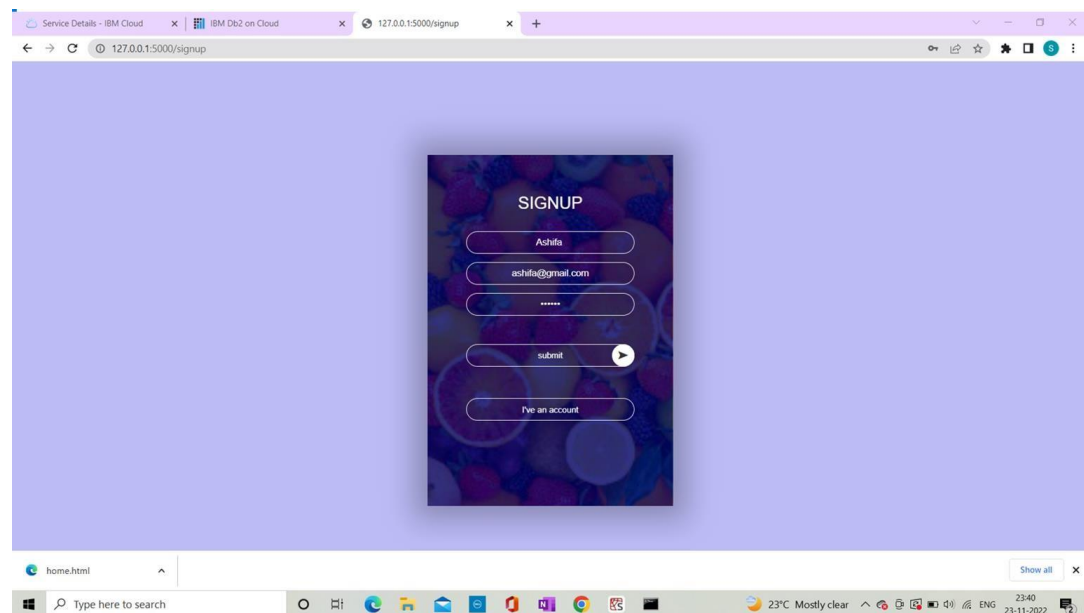
@app.route('/upload')
def upload():
    return render_template('upload.html')

```

```
def card(): #print(session["FOOD"],session['id'])
    sql = "SELECT * FROM INGREDIANT WHERE FOOD =?"
    stmt=ibm_db.prepare(conn,sql)
    ibm_db.bind_param(stmt,1,"Almonds")
    ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
    print("accountcard",account)
    return render_template('card.html',account = account)
```

```
if __name__ == '__main__':
    app.run(debug=True)
```

9.TESTING



Service Details - IBM Cloud x IBM Db2 on Cloud x Nutrition Assistant Application x +

← → ↻ bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemb%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F4b00aed91b66478950d1d2b4a6e6335%3A630c8985-32... ☆ ⚙️ 🔍

IBM Db2 on Cloud 🔔 👤

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

CGM44134.SIGNUP Back

Export to CSV

USERNAME	EMAIL	PASSWORD
Ashifa	ashifa@gmail.com	ashifa

home.html Show all x

Type here to search Polluted air 23:42 23-11-2022

Service Details - IBM Cloud x IBM Db2 on Cloud x User Details x +

← → ↻ 127.0.0.1:5000/signup

PROFILE

Username: Ashifa

Height: 1000

Weight: 1000

Age: 21

Illness: blablah

Gender: ☐ Male ☒ Female ☐ Others

Allergies(in case): blablah

Submit

home.html Show all x

Type here to search Polluted air 23:41 23-11-2022

IBM Db2 on Cloud

Load Data

Load History

Tables

Views

Indexes

Aliases

MQTs

Sequences

Application objects

CGM44134.PROFILE

Back

Export to CSV

USERNAME	HEIGHT	WEIGHT	AGE	ILLNESS	GENDER	ALLERGIES
Ashifa	1000	1000	21	blablah	Female	blablah

home.html

Show all

Service Details - IBM Cloud

IBM Db2 on Cloud

Nutrition Assistant Application

CGM44134.INGREDIANT

Back

Export to CSV

FOOD	MEASURE	GRAMS	CALORIES	PROTEIN	FAT	sat.fat	FIBER	CARBS	CATEGORY
(1/2 cup ice cream)	2 cups	540	690	24	24	22	0	70	Dairy products
(cornstarch)	1 cup	248	275	9	10	9	0	40	Dairy products
3 teaspoons sugar	1 T.	12	50	0	0	0	0	12	Desserts, sweets
9" diam. pie	1 slice	135	330	3	13	11	0	53	Desserts, sweets
Almonds	1/2 cup	70	425	13	38	28	1	13	Seeds and Nuts
Apple betty	1 serving	100	150	1	4	0	0	29	Desserts, sweets
Apple juice canned	1 can	250	175	0	0	0	0	34	Fruits & Veg

Items per page: 50 1-50 items

1 page 1

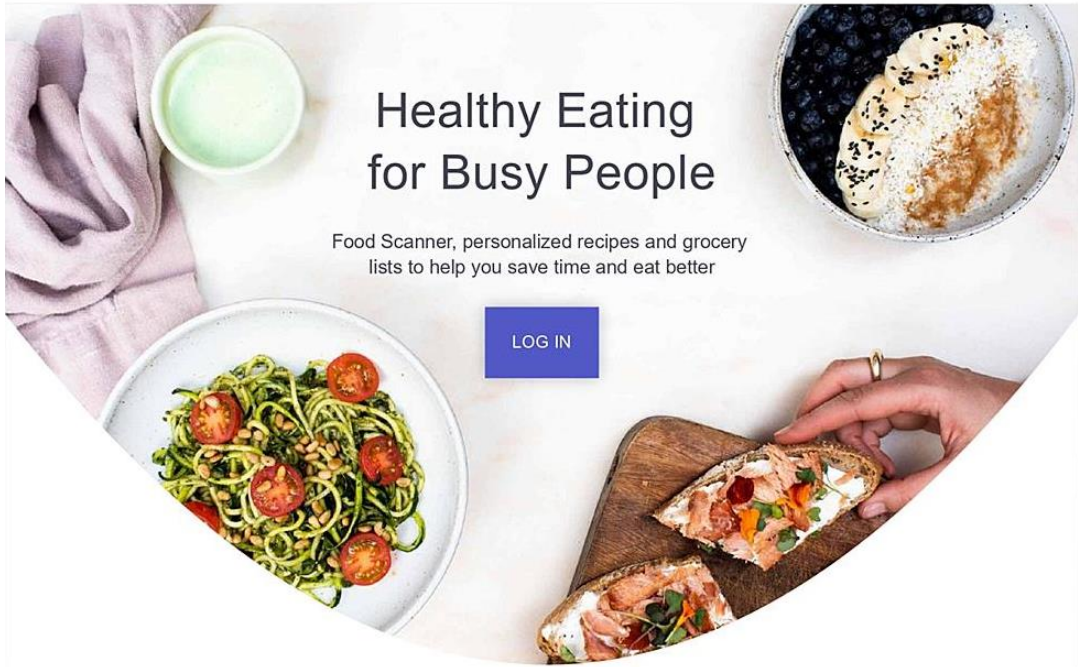
home.html

Show all

Healthy Eating for Busy People

Food Scanner, personalized recipes and grocery
lists to help you save time and eat better

LOG IN



Nutrition Assistant



Recipes

We suggest you the tasty and healthy recipe.



Scanning the food

You can find the nutritional fact by Scanning the food easily.

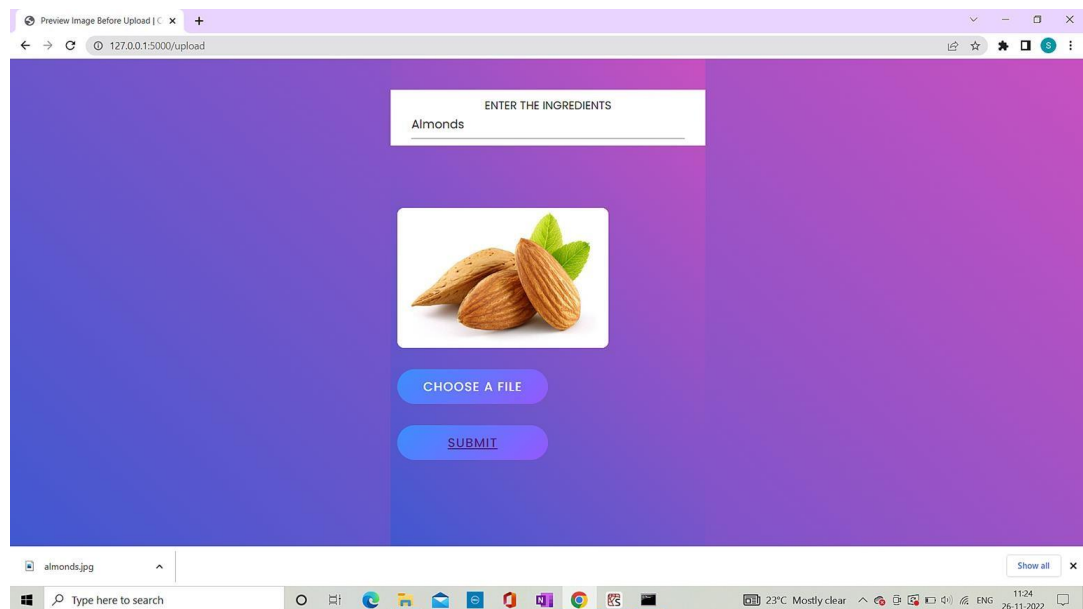


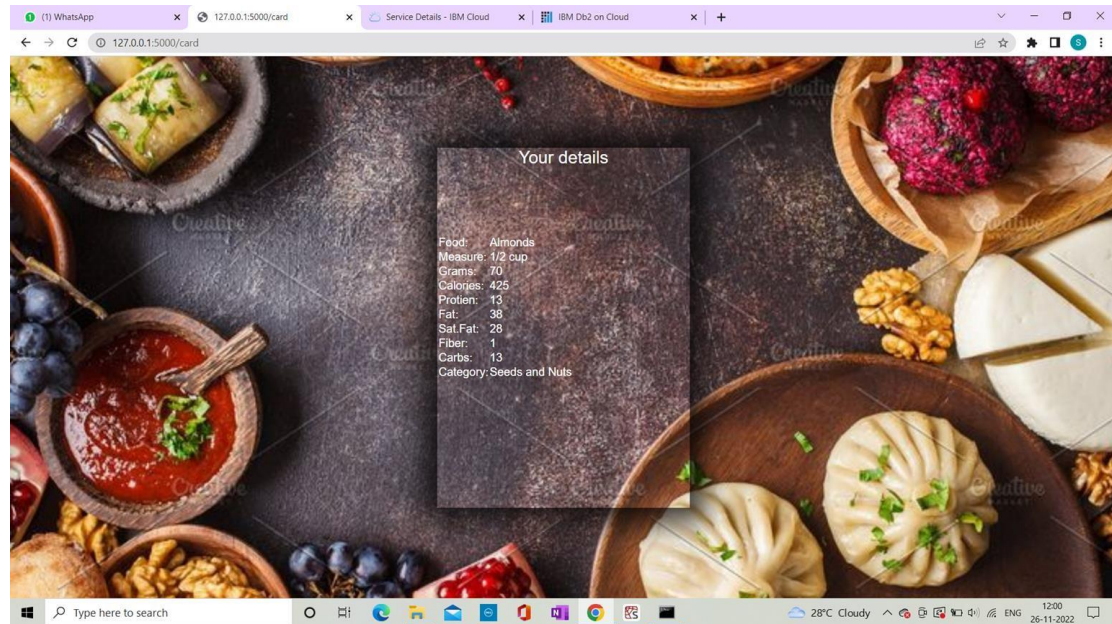
Smart grocery list

Our digital pantry takes into account what you have in your kitchen to reduce food waste and save money.

HOME

Join Thousands of
People Eating Better





RESULT

This web app provides the food details if the food image/ URL/ Name is entered. It provides the nutrients involved in it and also the nutrient value.

fig : web page to select the service image URL/ food image /food name.

fig : Showing the output of the food entered

Our another service provides the input of aggregate values of the nutrient consumed, as per the user requirements

10 ADVANTAGES AND DISADVANTAGES

10.1 Advantage

Our web app uses the food image given by the user then processes that to the nutrient values of the food then displays to the user. The user can enter the food details that he consumes daily based on time and date of consumption. The user can then go to the diary page and view the data

entered by him between any particular dates. He can also view the aggregated nutrient details.

This application can be used on the recommendation of the doctor or the hospitals where one can track all the data that the patient consumed to track the nutrient details of the patient.

10.2 Disadvantages

As the food around the world is very diverse, it is difficult to recognize some of the local foods. Both the APIs are having a very wide range of food images. But it's difficult to find all the food images.

In order to overcome the above disadvantages I have given the field where one can directly enter the food name. We then process the name to the nutrient values.

11 CONCLUSION

As there is improvement in people's standards of living, there is neglect in the proper balanced diet and this is reflective of the risks to people's health. People need to control their daily calorie intake by eating healthier foods.

My web app keeps the record of what the user eat and displays the nutrients he consumed which makes the user to find what nutrients he consumed in what amounts.

12 FUTURE SCOPE

As people are in this fast and busy world, it becomes important to track the food details. I have planned to add a feature where the user can set the goal of taking the nutrients per day / week. then our app tells whether he has reached

the goal.

I will also include the service where the user can update his weight and height based on which our app gives the Nutrients data that one needs to consume.

I have also planned to link the daily trackers in the mobiles like Google fit, from where we can get the calories lost and our web app give the data of nutrients to be consumed.

APPLICATIONS

This application has the following applications.

1. The uploaded food image is processed and then its the nutrient value is displayed.
2. The URL/The food name can also be given as food input.
3. The user can track the daily intake of food
4. User can track the nutrient values of the food that He consume.
5. User can store the data in his table in the database.
6. He can access the data whenever he wishes.
7. Users can watch their aggregate nutrients consumed and also received the mail of the aggregate report.
8. This application can be recommended by the doctor/hospitals who wish to track the food/nutrient consumption of the patient.

13.APPENDIX

9. I have used IBM Watson Visual recognition v3 API for Food Model for food recognition. Where it take the food image/URL as input and give the food name as output.

USDA API uses the food name given and then processes it to the nutrient list.

