Project Report Format

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1. INTRODUCTION:

1.1 Project Overview:

Good nutrition promotes not only better physical health and reduced susceptibility to disease, but has also been demonstrated to contribute to cognitive development and academic success. Left to their own devices, children will not automatically select healthy foods.

Nutrition is the process of consuming, absorbing, and using nutrients needed by the body for growth, development, and maintenance of life. To receive adequate, appropriate nutrition, people need to consume a healthy diet, which consists of a variety of nutrients the substances in foods that nourish the body.

Living a healthy lifestyle can help prevent chronic diseases and long-term illnesses. Feeling good about yourself and taking careof your health are important for your self-esteem and self-image. Maintain a healthy lifestyle by doing what is right for your body.

At last I want to conclude that food and health both are related to each other. Our health depends upon what food we eat and how much we eat. Therefore we should be careful while eating.

For all these needs our platform supports to lead a healthy life.

1.2 Purpose:

Nutrition assistant application helps dieticians with providing proper nutrition at healthcare facilities. It determine nutritional needs and assets risk factors. Nutritional assessment allows healthcare providers to systematically assess the food diagnose malnutrition, identify underlying pathologies in food that lead to malnutrition, and plan necessary interventions.

Nutrition apps can help make life easier for individuals who need to track their food intake for health reasons. Eating a balanced diet is not always easy, especially when eating out, trying to cook new recipes, or managing the demands of a busy life.

2. LITERATURE SURVEY:

2.1 Existing Problem:

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

2.2 References:

1. Adnan Shehzad , Hui Su , Jin Lui , Si Chin , Zhidong Shen (2019) "Machine Learning Based Approach on Food Recognition and `Nutrition Estimation", International Conference On Identification, Information And Knowledge In The Internet Of Things(IOT)(IIKI2019).

2. Alisha Lalani, Md.Riyazudin, Mousmi Ajay Chaurasia, Salva Fathima, Syed Ibrahim Ibaad (2022) "Estimation of Quantity and Nutritional Information Using Image Processing", International Journal Of Scientific And Engineering Research.

3. Bojia Qiu , Chenxi Huang , Kunhui Lin , Landu Jiang , Xue Liu (2022) "Deep Food: Food Image Analysis and Dietary Assessment via Deep Model", International Journal Of Scientific And Engineering Research.

4. Djilani Kebaili, Eric Antoine Scuccimarra,Gaurav Singhal, Harris Heritier,Marcel Salathe, Sharada Prasanna Mohanty, Victor Boulanger (2016) “The Food Recognition Benchmark: Using Deep Learning to Recognize Food in Images”, International Conference On Identification And Knowledge On IOT.

5. Hazum Kemal Ekenel , Marwa Qaraqe , Seymanur Aktr (2016) “A Mobile Food Recognition System for Dietary Assessment”, International Conference On Identification And Knowledege On IOT.

6. Hui Deng , Jianbo Wu , Xianghui Zeng , Ying Wang (2021) “A Comprehensive Survey of Image-Based Food Recognition and Volume Estimation Methods for Dietary Assessment”, International Conference on Journal Publication.

7. Manpreetkour Basantsingh Sardar , Dr.Sayyad D.Ajij (2016) “Fruit Recognition and its Calorie Measurement: An Image Processing Approach”, International Journal Of Engineering And Computer Science.

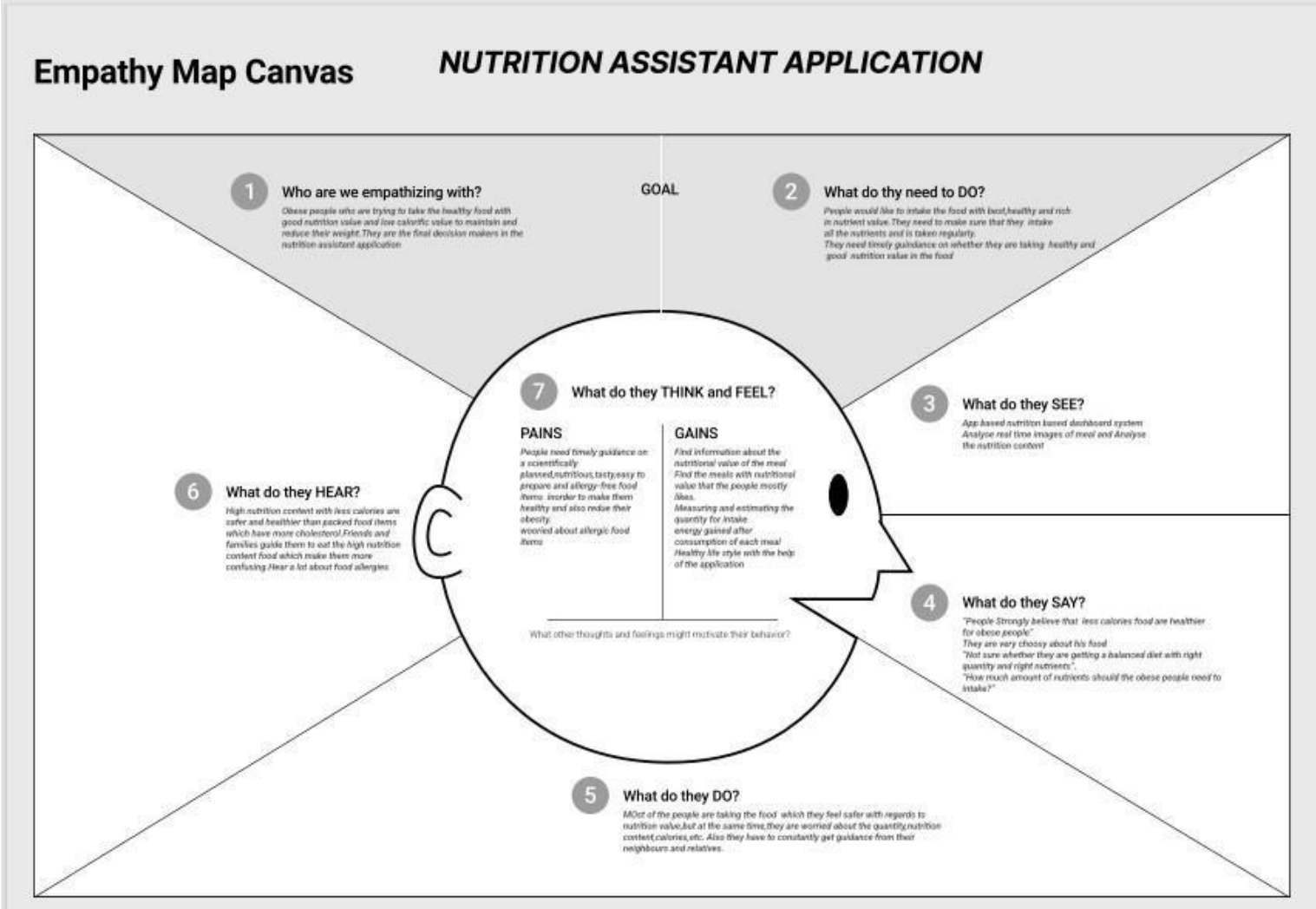
2.3 Problem statement definition:

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

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

3.IDEATION AND PROPOSED SOLUTION:

3.1 Empathy Map Canvas:



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

3.2 IDEATION AND BRAINSTORM

Define your problemstatement:

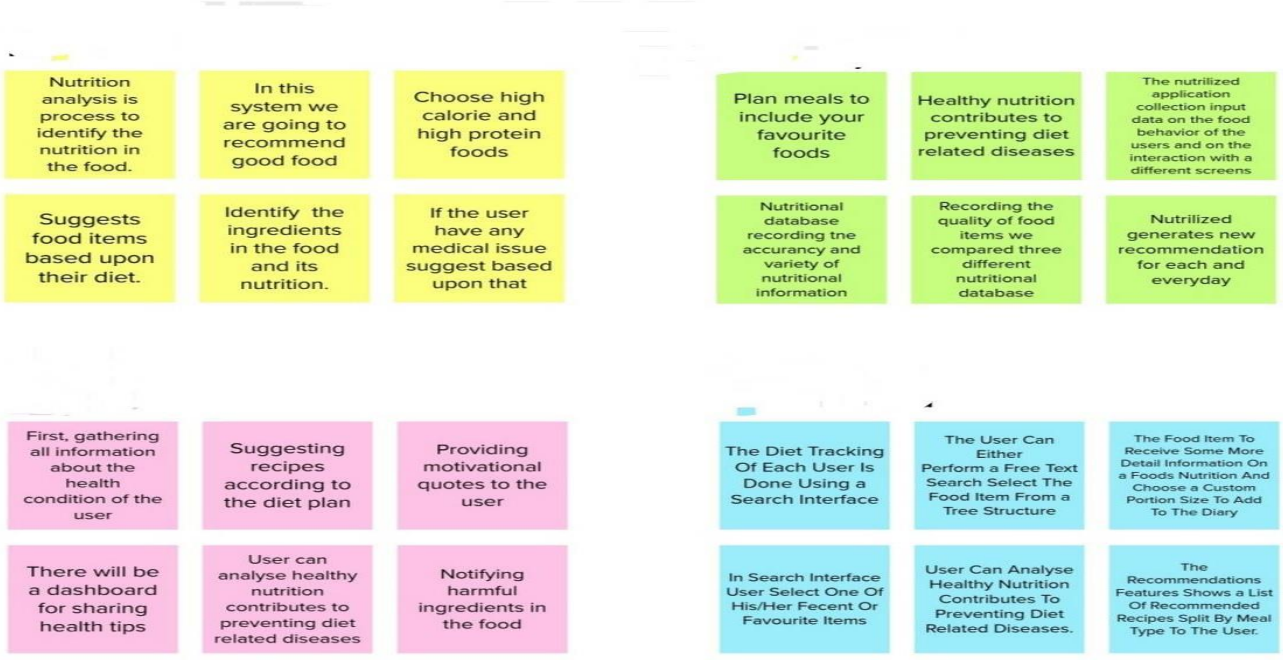
What problem are you trying to solve? Frame your problem as a How Might We statement. This will be thefocusof your brainstorm.

PROBLEM

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

BRAINSTORM:

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



Group ideas:

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

Prioritize:

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

are important and which are feasible.

3.3 PROPOSED SOLUTION:

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

S .No	Parameter	Description
1	Problem Statement (Problem to be solved)	Due to the ignorance of healthy food habits, obesity rates are increasing at an alarming speed, and this is reflective of the risks to people's health. People need to control their daily calorie intake by eating healthier foods, which is the most basic method to avoid obesity. However, although food packaging comes with nutrition (and calorie) labels, it's still not very convenient for people to refer
2	Idea / Solution description	The key research objectives are as follows: · The proposed system would be able to determine the ingredients from the provided image. · The proposed system also consists of a nutrition API, which provides the amount of nutrition present in the food.
3	Novelty / Uniqueness	The current system is capable of calculating nutrition, but the user must provide food item details manually. We are adding a system that is capable of detecting food items from an image, and this is a uniqueness we made here besides from project constrain.
4	Social Impact / Customer Satisfaction	Nutrition is a critical part of health and development. Better nutrition is related to improved infant, child, and maternal health; stronger immune systems; safer pregnancy and childbirth; a lower risk of non-communicable diseases (such as diabetes and cardiovascular disease); and longevity
5	Business Model (Revenue Model)	It has multiple business models Some of it, · An individual can use this application to take care of their diet. · Nutrition assistants help dieticians with providing proper nutrition at healthcare facilities.

6	Scalability of the Solution	It provides access to a large number of users at a time with accurate information about nutrition. It can handle a large variety of food items.

3.4 Problem Solution Fit:

1. CUSTOMER SEGMENT(S)

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

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

Obesity and the user's anxiety about developing health-related problems are his or her problems. If they don't see results right away, they'll get impatient and find it difficult to finish laborious chores. They lack confidence as a result of their appearance.

3. TRIGGERS

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

4. EMOTIONS: BEFORE / AFTER

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

5. AVAILABLE SOLUTIONS

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

6. CUSTOMER

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

7. BEHAVIOUR

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

8. CHANNELS of BEHAVIOUR

8.1 ONLINE

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

8.2 OFFLINE

Conducting offline awareness program for healthy life standard.

9. PROBLEM ROOT CAUSE

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

10. YOUR SOLUTION

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

4. REQUIREMENTS :

4.1 Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No	Functional Requirement (Epic)	Sub Requirement (Story/ Sub-Task)
FR-1	User Registration	Registration through Form.
FR-2	User Confirmation	Confirmation via Email.
FR-3	Image Uploading	Calculation of Nutrition level.
FR-4	View History	Enable to view the old result.
FR-5	Delete History	Enable to delete the old result.

4.2 Non Functional Requirements:

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

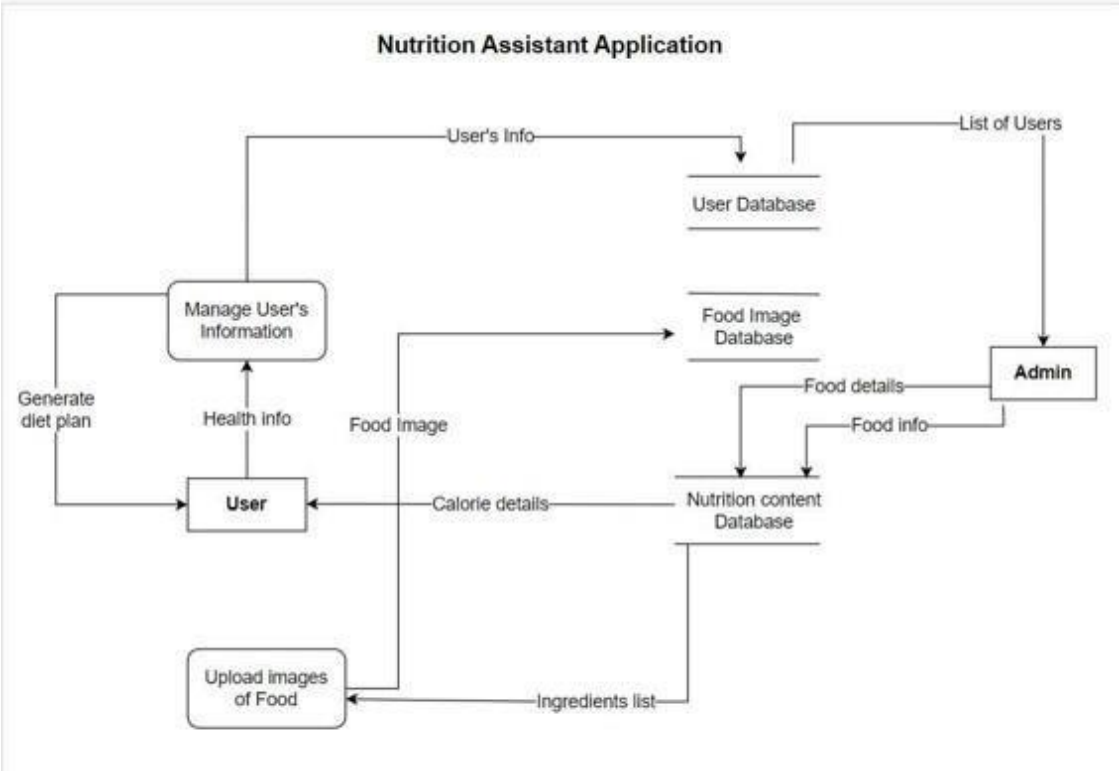
FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Using Android or IOS or windows application.
NFR-2	Security	The user data is stored securely in IBM Cloud.
NFR-3	Reliability	The Quality Of the Service are trusted.

NFR-4	Performance	It provide smooth user experience.
NFR-5	Availability	The Service are available for 24 /7.
NFR-6	Scalability	It is easy to scalable size for users.

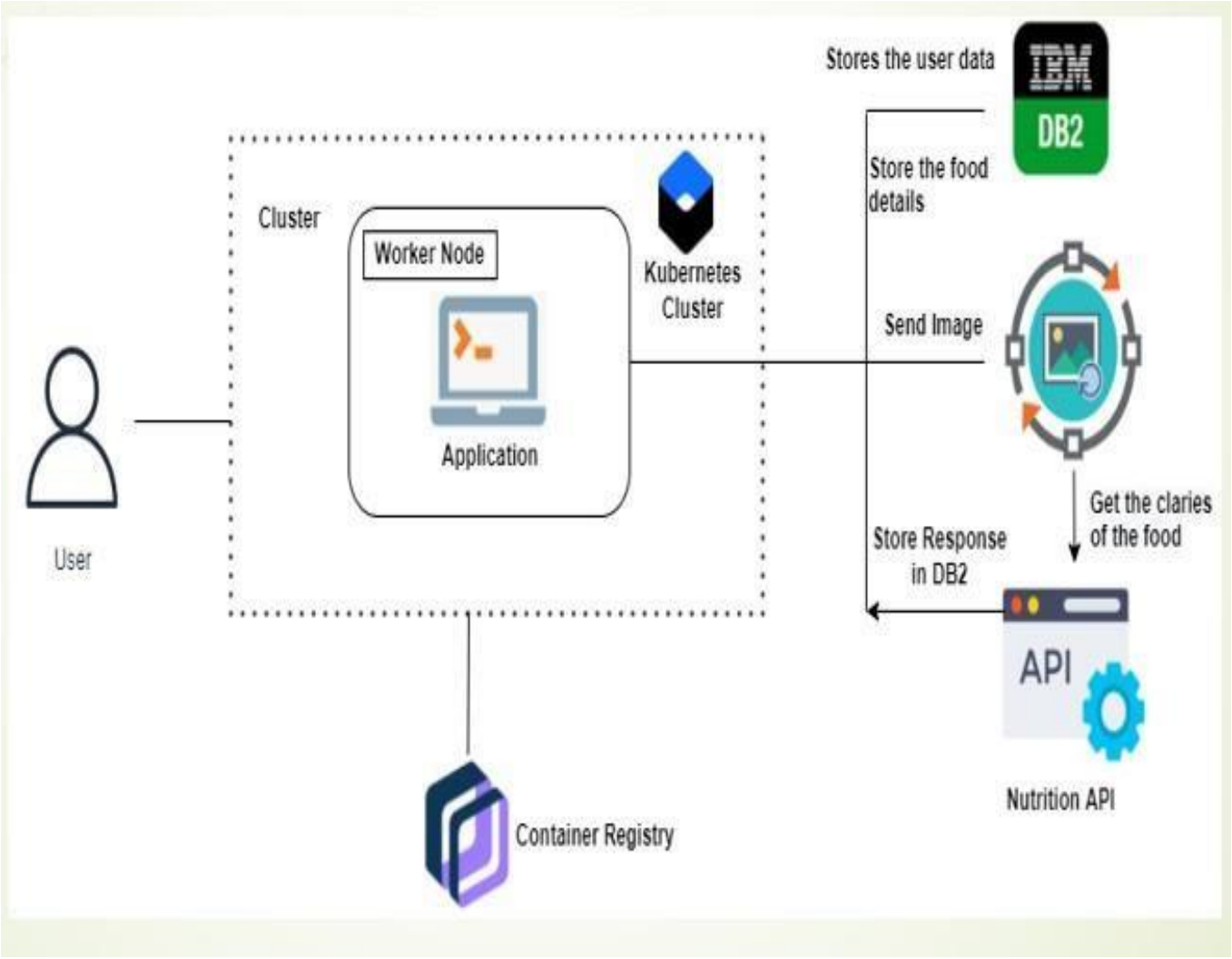
5. PROJECT DESIGN :

5.1 Data Flow Diagrams:

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



5.2 Technical Architecture:



5.3 User Stories:

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

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer	Registration	USN-1	As a user, I can register for the application by entering my name, e-mail and password.	As a user, I feel the site is very secure.	High	Sprint-1
	Registration	USN-2	As a user, I will receive confirmation email once I have registered for the application.	I can receive confirmation email & click confirm.	Medium	Sprint-1
	Login	USN-3	As a user, I can login to the application through e mail and password.	I can access my account /dashboard.	Medium	Sprint-2
	Database	USN-4	As a user, I can upload image of the meal.	I can get the nutritional value of that particular meal	High	Sprint-3
Administrator	Maintaining details for users	USN-5	Maintaining details for users.	I can access database.	High	Sprint-4
	Security	USN-6	As a user, I feel the site is very secure.	I can access my account with my login credentials.	High	Sprint-1

6. PROJECT PLANNING & SCHEDULING

6.1 sprint planning & Estimation

Title	DESCRIPTION	DATE
Literature Survey & Information Gathering	Literature survey on the selected project & gathering information by referring the, technical papers, research publications etc.	23 SEPTEMBER 2022
Prepare Empathy map	Prepare Empathy Map Canvas to capture the user Pains & Gains, Prepare list of problem statements	**24 SEPTEMBER 2022**
Ideation	List the by organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility & importance.	25 SEPTEMBER 2022
Proposed Solution	Prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc.	30 SEPTEMBER 2022
Problem Solution fit	Prepare problem - solution fit document.	01 OCTOBER 2022
Solution Architecture	Prepare solution architecture document.	02 OCTOBER 2022

Customer Journey	Prepare the customer journey maps to understand the user interactions & experiences with the application (entry to exit).	07 OCTOBER 2022
Functional Requirement	Prepare the functional requirement document.	08 OCTOBER 2022

Data Flow Diagrams	**Draw the data flow diagrams and submit for review.**	**09 OCTOBER 2022**
Sprint Delivery Plan	**Allocate time for each and everyFunctions**	**20 OCTOBER 2022**
Prepare Milestone & ActivityList	**Prepare the milestones & activity list of the project**	**21 OCTOBER 2022**
Project Development - Delivery of Sprint-1, 2, 3 & 4	**Develop & submit the developed code by testing it.**	**IN PROGRESS**

6.2 Sprint Delivery schedule

Product Backlog, Sprint Schedule, and Estimation

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	UI	USN-1	As a user, I can register for the application by entering my email, password.	10	High	Anitha Anubala
Sprint-1	API	USN-2	As a user, I will receive confirmation email once I have registered for the application	10	High	Bhuja Anuvarshini
Sprint-2	UI	USN-3	As a user, I can view my history.	10	Low	Bhuja Anitha
Sprint-2	UI	USN-4	As a user, I can log into the application by entering email & password	10	High	Anuvarshini Anitha
Sprint-3	UI	USN-5	As a user, I can delete my history.	20	Medium	Anubala Bhuja
Sprint-4	API	USN-6	As a user, I can calculate nutrition from an image.	20	Higher	Anubala Anitha Anuvarshini Bhuja

6.3 Reports from JIRA

Project Tracker, Velocity & Burndown Chart :

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

Velocity:

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

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.


Goal : 80 hours in 4 weeks
Burndown Chart
Effort(hours)
90
80
70
60
50
40
30
20
10
0
Setting up App Environment
Integrating sendgrid service
Developing a chatbot
Implementing web App
Deployment of app in IBM Cloud
Actual Effort
Estimated Effort
Oct 24 - 29 Week 1
Oct 31 – Nov 05 Week 2
Nov 07 – 12 Week 3
Nov 14 – 19 Week 4
Remaining (Days)

7. CODING AND SOLUTIONING:

Feature -1

```
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import re
import http.client
import json
from werkzeug.utils import secure_filename
import math
import os


app = Flask(__name__)

app.secret_key = 'a'

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=ba99a9e6-d59e-4883-8fc0-
d6a8c9f7a08f.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=31321;SECURITY=SSL;SSLServerCertificate=
DigiCertGlobalRootCA.crt;UID=gwx48871;PWD=HdxEzYWLGDsWiUfG","","")


@app.route("/signup")
def signup():
    return render_template("signup.html")

@app.route("/addrec",methods=['GET','POST'])
def addrec():
    msg = ''
    if request.method == 'POST':
        username = request.form['username']
        password = request.form['password']
        email = request.form['email']

        sql = "SELECT * FROM users1 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 account:
            return render_template("signup.html",msg="Already a user")
        else:
            insert_sql = "INSERT INTO users1 VALUES (?, ?, ?)"
```

```
            prep_stmt = ibm_db.prepare(conn, insert_sql)
            ibm_db.bind_param(prep_stmt, 1, username)
            ibm_db.bind_param(prep_stmt, 2, email)
            ibm_db.bind_param(prep_stmt, 3, password)

            ibm_db.execute(prep_stmt)
            msg = 'You have successfully registered !'

        return render_template('signup.html', msg=msg)



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

@app.route('/login')
def login1():
    return render_template('login.html')

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



@app.route('/authenticate',methods=['GET','POST'])
def authenticate():
    global userId;
    if request.method == 'POST':
        password = request.form['password']
        email = request.form['email']
        print(email)
        sql = "SELECT * FROM users1 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)
        if account:
            session['loggedin']=True
            session['id']=account['EMAIL']
            userId=account['EMAIL']
```

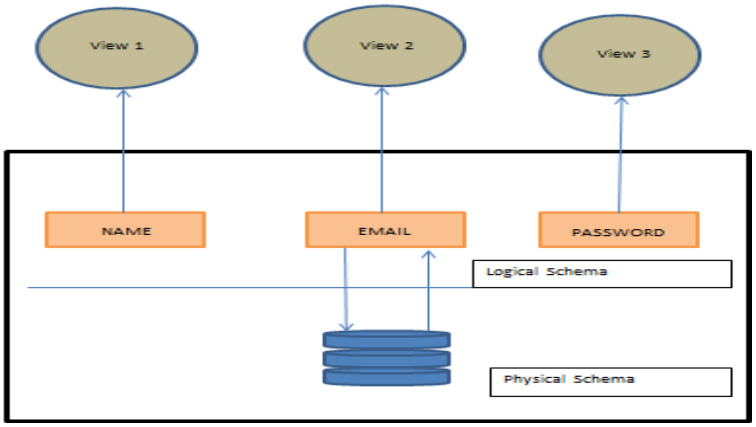
```
            session['email']=account['EMAIL']
            return render_template("dashboard.html",msg=email)
        else:
            return render_template("login.html",msg="incorrect")


@app.route("/checkpass",methods=['GET','POST'])
def checkpass():
    msg=''
    if request.method == 'POST':
        password = request.form['password']
        email = request.form['email']
        sql = "select * from users1 where email=?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt, 1, email)
        ibm_db.execute(stmt)
        account=ibm_db.fetch_assoc(stmt)
        if account:
            sql1="update users1 set password=? where email=?"
            stmt = ibm_db.prepare(conn, sql1)
            ibm_db.bind_param(stmt, 1, password)
            ibm_db.bind_param(stmt, 2, email)

            ibm_db.execute(stmt)
            return render_template('forgotpw.html',msg="changed")
        else:
            return render_template('forgotpw.html',msg="incorrect")
@app.route('/forgotpw')
def forgotpw():
    return render_template('forgotpw.html')

@app.route('/getnutri',methods=['GET','POST'])
def getnutri():
    if request.method=="POST":
        name=request.form['name']
        print(name)
        conn = http.client.HTTPSConnection("spoonacular-recipe-food-nutrition-v1.p.rapidapi.com")

        headers = {
            'X-RapidAPI-Key': "b83d346435msh8fe6686c34fa340p1091cajsn36d5e66c8425",
            'X-RapidAPI-Host': "spoonacular-recipe-food-nutrition-v1.p.rapidapi.com"
```

```
    }

    conn.request("GET", "/recipes/guessNutrition?title="+name, headers=headers)

    res = conn.getresponse()
    data = res.read()
    r=json.loads(data)
    val=len(r)

    if val == 2:
        return render_template("getnut.html",msg="invalid")
    else:
        calories = r["calories"]["value"]
        fat = r["fat"]["value"]
        protein = r["protein"]["value"]
        carbs = r["carbs"]["value"]
        def add():
            conn = ibm_db.connect(
                "DATABASE=bludb;HOSTNAME=ba99a9e6-d59e-4883-8fc0-
d6a8c9f7a08f.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=31321;SECURITY=SSL;SSLServerCertificate=
DigiCertGlobalRootCA.crt;UID=gwx48871;PWD=HdxEzYWLGDsWiUfG",
                "", "")

            insert_sql = "INSERT INTO historyi VALUES (?, ?, ?, ?, ?)"
            calories1=round(calories,2)
            protein1=round(protein,2)
            fat1 = round(fat, 2)
            carbs1 = round(carbs, 2)
            print(calories1)
            prep_stmt = ibm_db.prepare(conn, insert_sql)
            ibm_db.bind_param(prep_stmt, 1, name)
            ibm_db.bind_param(prep_stmt, 2, calories1)
            ibm_db.bind_param(prep_stmt, 3, protein1)
            ibm_db.bind_param(prep_stmt, 4, fat1)
            ibm_db.bind_param(prep_stmt, 5, carbs1)

            ibm_db.execute(prep_stmt)



        add()
```

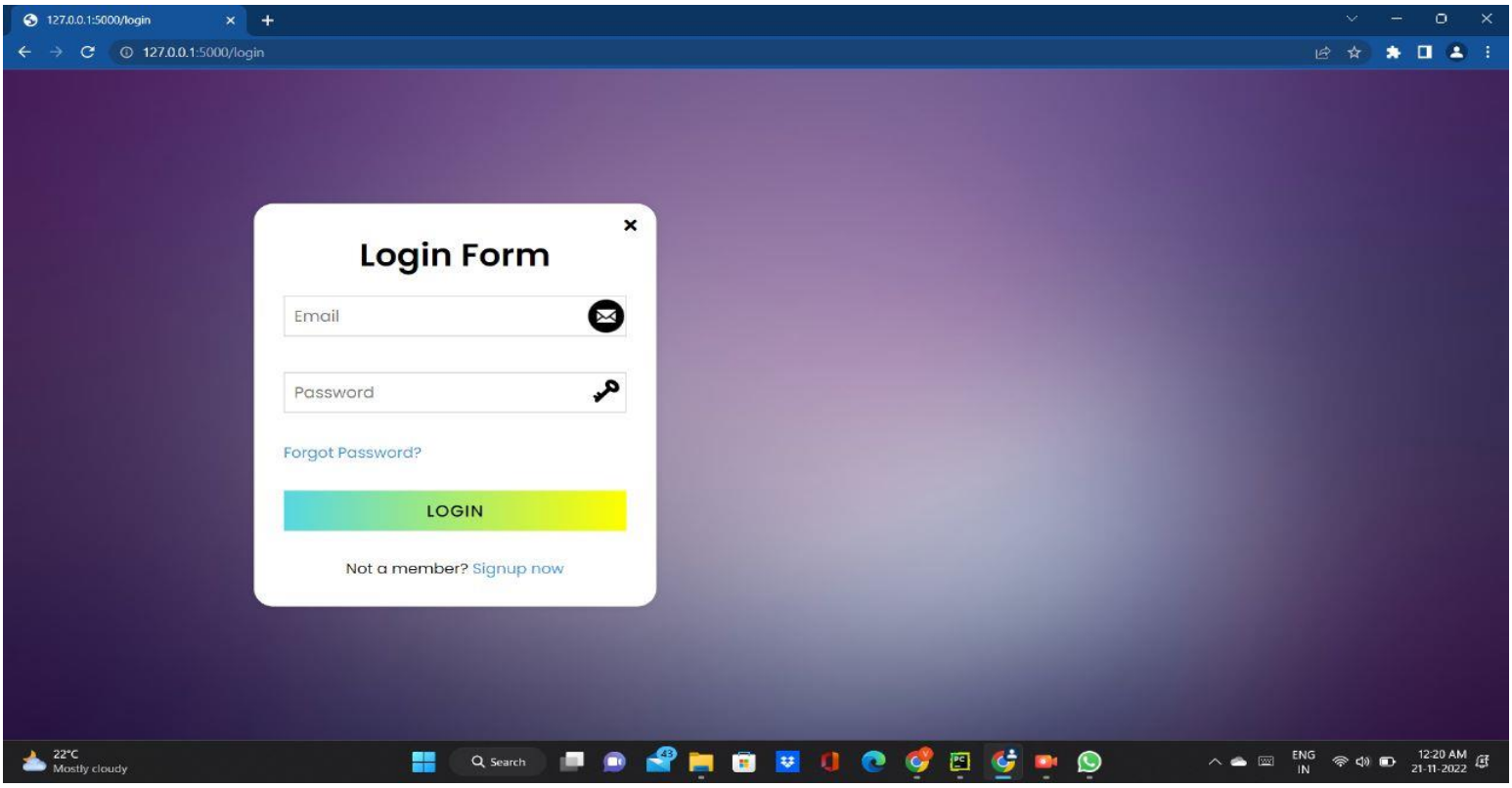
```
        return render_template('getnut.html',calories=calories,fat=fat,protein=protein,carbs=carbs)
    return render_template('getnut.html')

@app.route('/up')
def up():
    return render_template('up.html')
# UPLOAD_FOLDER = 'C:\\Users\\bestr\\PycharmProjects\\Nutrition Assistant\\static\\images'
# app.config['UPLOAD_FOLDER']=UPLOAD_FOLDER
@app.route('/uploader', methods = ['GET', 'POST'])
def uploader():
   if request.method == 'POST':
      f = request.files['file']
      f.save(secure_filename(f.filename))
      # f.save(os.path.join(app.config['UPLOAD_FOLDER'],f.filename))
      print(f.filename)
      # n=f.filename
      # file_extns=n.split(".")
      # q=repr(file_extns[0])
      # w=repr(file_extns[-1])
      # a2 = q.strip("\'")
      # print(q)
      a = f.filename
      b = a[:-1]
      c = b[:-1]
      d = c[:-1]
      e = d[:-1]
      print(e)

      return render_template('getnut.html',msg=e,img=a)


@app.route('/display')
def display():
    history=[]
    sql = "SELECT * FROM historyi"
    stmt = ibm_db.exec_immediate(conn, sql)
    dictionary = ibm_db.fetch_both(stmt)
    while dictionary != False:
        # print ("The Name is : ",  dictionary)
        history.append(dictionary)
        dictionary = ibm_db.fetch_both(stmt)
```

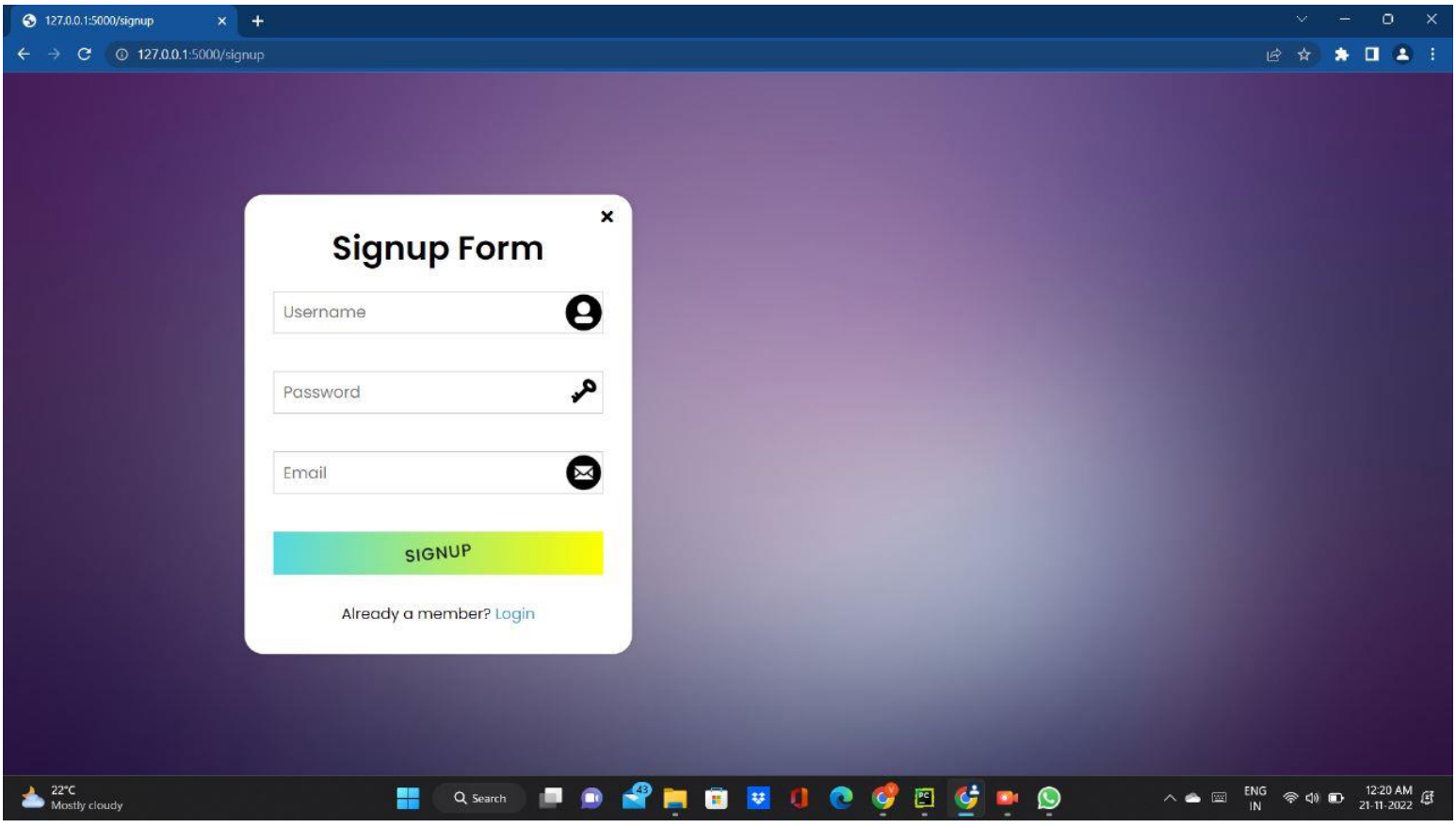
```
if history:
    return render_template('display.html',history = history)
```

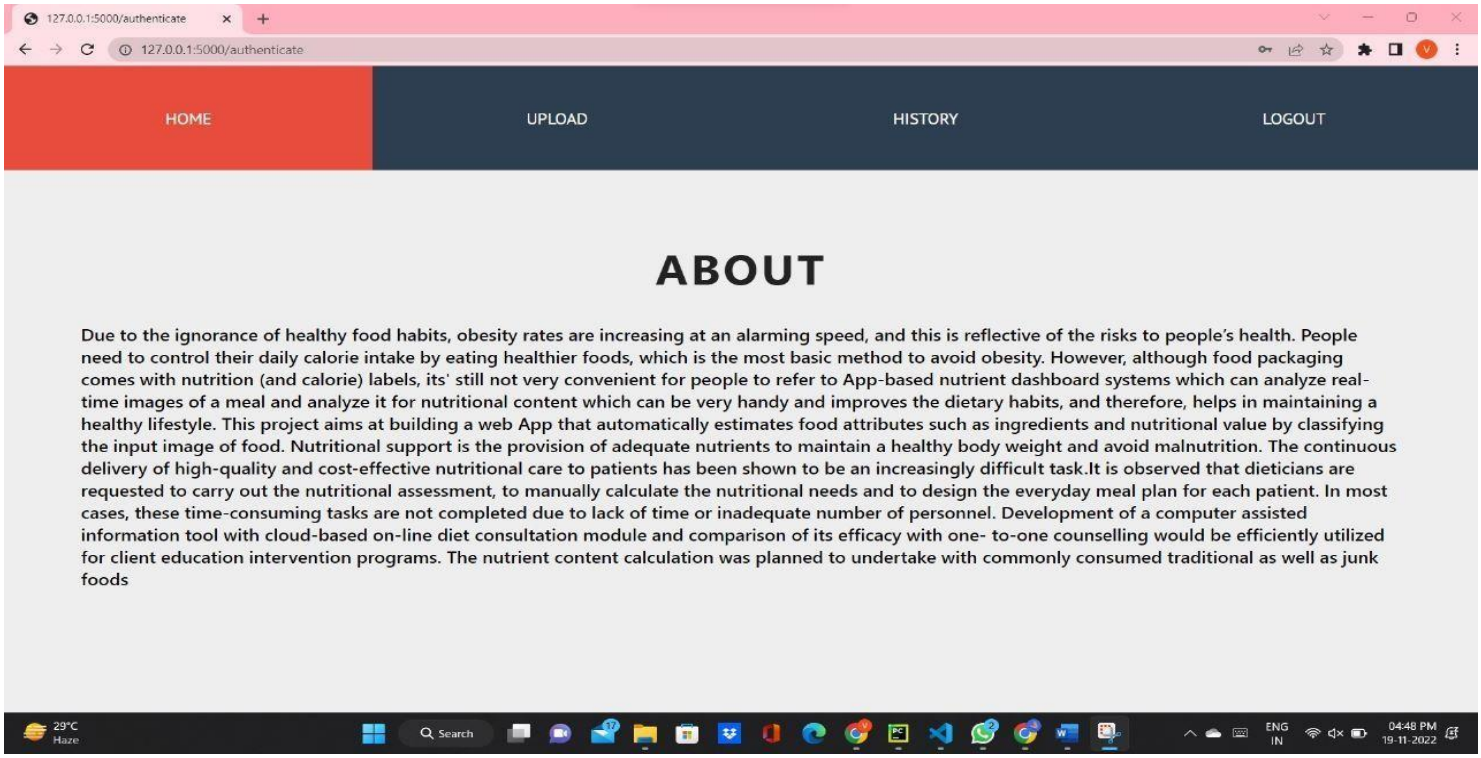
7.1 DATABASESCHEMA



8. RESULT:


127.0.0.1:5000/login
Login Form
Email
Password
Forgot Password?
LOGIN
Not a member? Signup now


127.0.0.1:5000/signup
Signup Form
Username
Password
Email
SIGNUP
Already a member? Login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ABOUT
Due to the ignorance of healthy food habits, obesity rates are increasing at an alarming speed, and this is reflective of the risks to people's health. People need to control their daily calorie intake by eating healthier foods, which is the most basic method to avoid obesity. However, although food packaging comes with nutrition (and calorie) labels, its' still not very convenient for people to refer to App-based nutrient dashboard systems which can analyze real-time images of a meal and analyze it for nutritional content which can be very handy and improves the dietary habits, and therefore, helps in maintaining a healthy lifestyle. This project aims at building a web App that automatically estimates food attributes such as ingredients and nutritional value by classifying the input image of food. Nutritional support is the provision of adequate nutrients to maintain a healthy body weight and avoid malnutrition. The continuous delivery of high-quality and cost-effective nutritional care to patients has been shown to be an increasingly difficult task.It is observed that dieticians are requested to carry out the nutritional assessment, to manually calculate the nutritional needs and to design the everyday meal plan for each patient. In most cases, these time-consuming tasks are not completed due to lack of time or inadequate number of personnel. Development of a computer assisted information tool with cloud-based on-line diet consultation module and comparison of its efficacy with one- to-one counselling would be efficiently utilized for client education intervention programs. The nutrient content calculation was planned to undertake with commonly consumed traditional as well as junk foods
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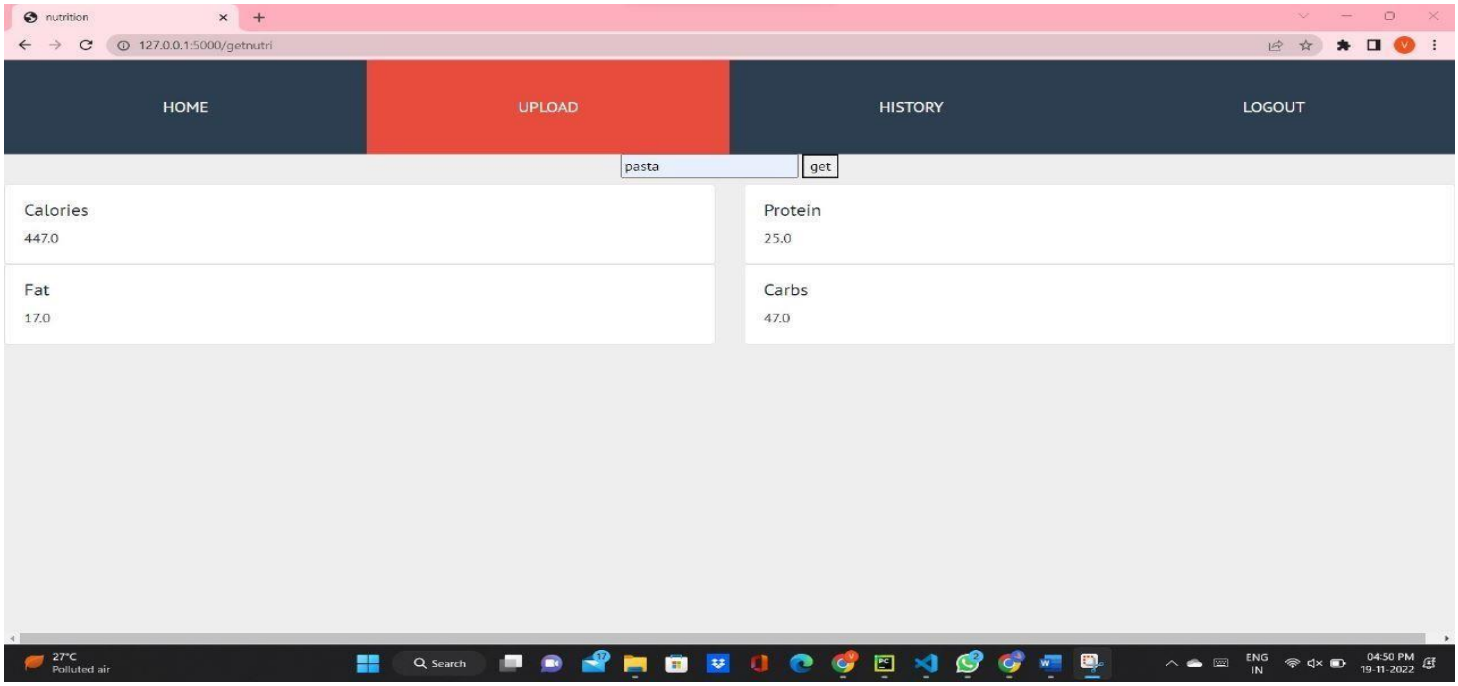
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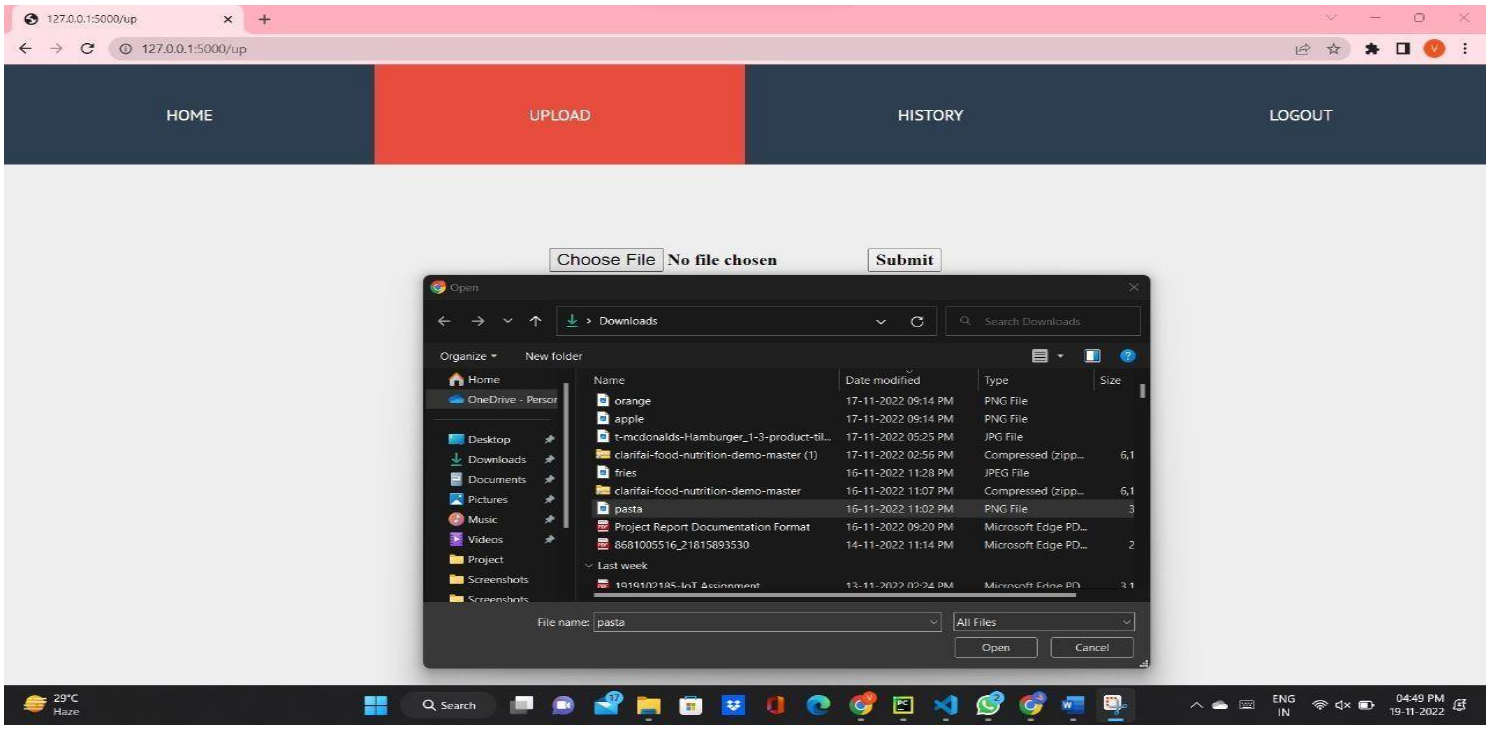
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Choose File
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Organize
New folder
Home
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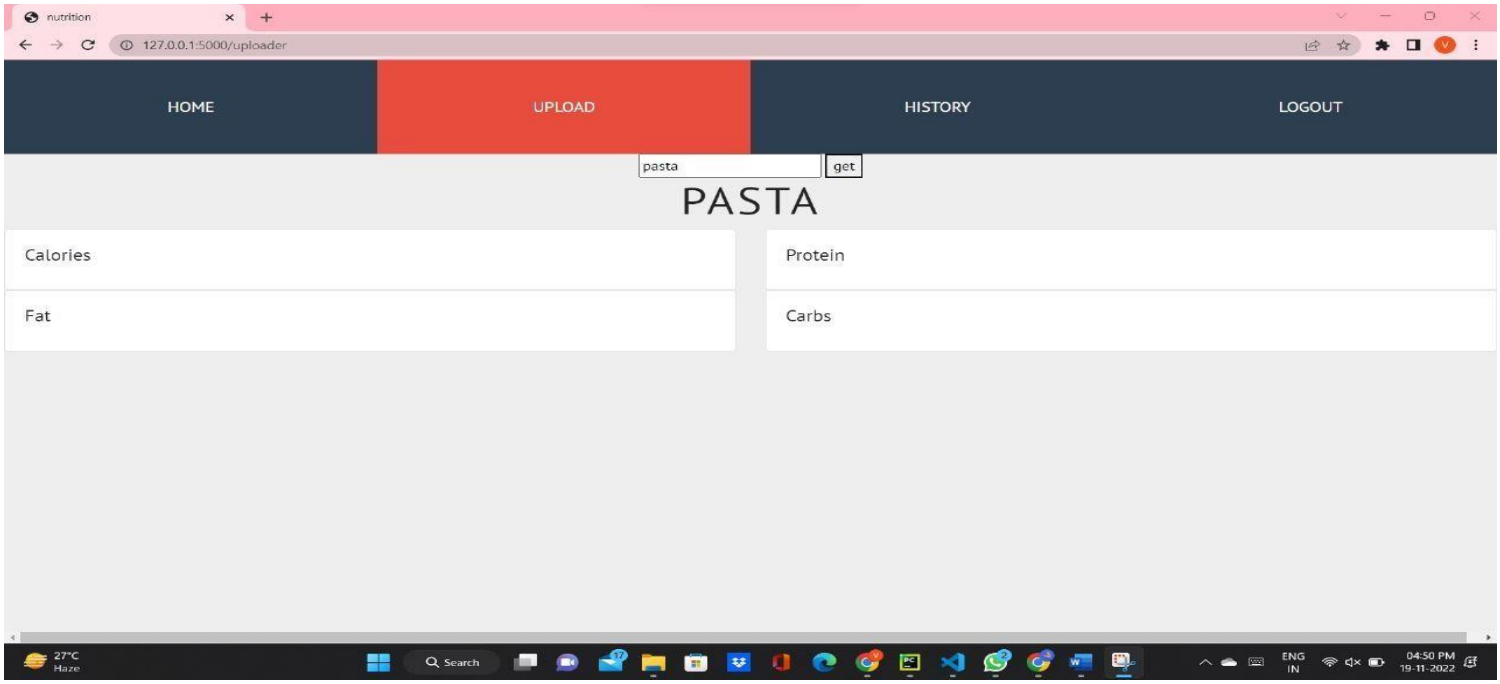
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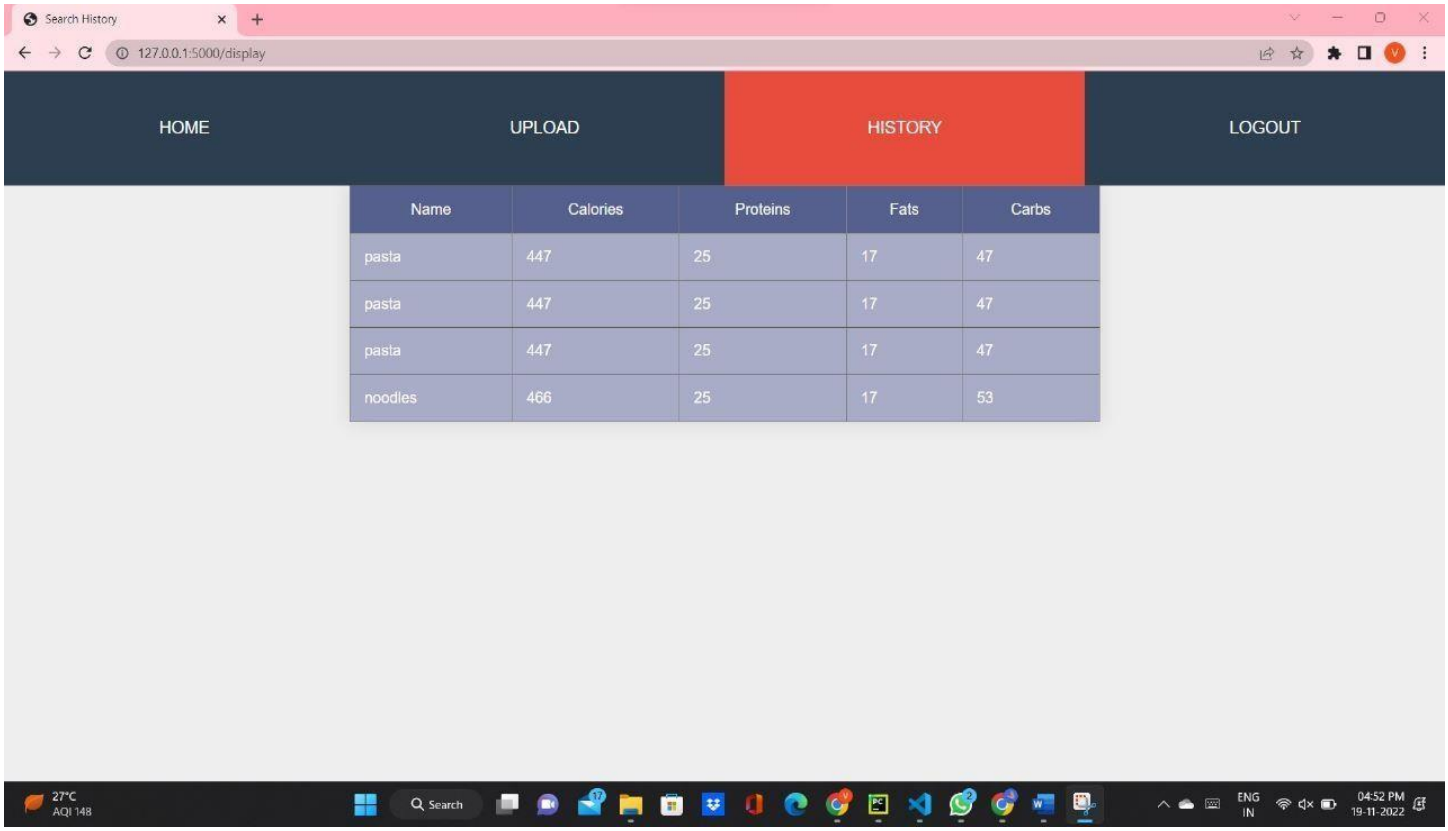
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9. ADVANTAGES:

1.Low Energy Consumption.

2.Works Under Low Data Connection.

3.User Friendly Web Application.

4.Data Privacy.

5.Easy to Understand.

DISADVANTAGES:

6.It cannot be used without internet connection.

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

10. CONCLUSION:

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

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

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

11. FUTURE SCOPE :

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

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

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

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

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

your part in spreading some good in the world.

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

12. APPENDIX:

12.1 SOURCE CODE

Source code-

https://github.com/IBM-EPBL/IBM-Project-26352-1660025541

Demo Link-

https://drive.google.com/file/d/18JtFAWLeEuR1hBFb43B3wQ_jATrFzv6h/view?usp=share_link