

NUTRITION ASSISTANT **APPLICATION**

PROJECT REPORT
SUBMITTED BY
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INTRODUCTION

Due to the ignorance of healthy food habits, obesity rates are increasing at an alarming speed, and this is reflective of the risks to people's health. People need to control their daily calorie intake by eating healthier foods, which is the most basic method to avoid obesity. However, although food packaging comes with nutrition (and calorie) labels, it's still not very convenient for people to refer to App-based nutrient dashboard systems which can 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.

1.1 PROJECT OVERVIEW

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.

1.2 PURPOSE

The users continue to demand to know the nutritional value that is in their food. The users learn about the effect of different foods on human health. Evidently, the ultimate aim of this application is to provide the ways in which one can lead a healthy life by maintaining his/her diet. The user can access the nutritional information by taking a photo of the food, uploading a photo from the gallery, or by entering manually.

LITERATURE SURVEY

2.1 EXISTING PROBLEM

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.

2.2 REFERENCES

<https://ieeexplore.ieee.org/document/4782671>

<https://ieeexplore.ieee.org/document/8118575>

2.3 PROBLEM STATEMENT DEFINITION 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

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TITLE AND AUTHOR(S)	YEAR	TECHNIQUE (S)	FINDINGS	PROS AND CONS
Enhancing Cloud and healthy Food Nutrition Information Systems Practice- Paul, PK and Aithal, PS and Bhuimali, A	2017	Cloud Computing, Mobile Computing	Among the common mass food information systems are not yet popularized as a domain and thus there are huge potentialities to work on this.	P: Regarding manpower development there are a lot of things are pending and possible to work with. Hence cloud will do an attention on skill and manpower development for sophisticated development of food information systems.
Mobile cloud based system recognizing nutrition and freshness of food image- Kumbhar, Diptee and Patil, Sarita	2017	Cloud Computing, Image Segmentation	Mobile cloud computing (MCC) has been introduced to be a potential paradigm for mobile health services to overcome the interoperability issues over distinctive information formats. In this, we propose a mobile cloud-based food calorie measurement framework.	<div>P: Multiple Platform Support. Cost-Efficient</div> <div>C: Connectivity and Performance Issues</div>

<p>Predicting calorific value for mixed food using image processing-</p> <p>Kohila, R and Meenakumari, R</p>	<p>2017</p>	<p>Cloud Computing, Image Segmentation</p>	<p>The objective of this paper is to predict and to fix diet control for various diseases by measuring the calorific value to help the patients and nutritionists. The image captured through a mobile phone/tablet camera will provide information concerning the calorie rate of the food.</p>	<p>P: Increased security Reduced cost</p> <p>C: Limited control . Lacks Support</p>
<p>Use of artificial intelligence in precision nutrition and fitness-</p> <p>de Moraes Lopes, Maria Helena Baena and Ferreira, Danton Diego and Ferreira, Ana Claudia Barbosa Honorio and da Silva, Giuliano Roberto and Caetano, Aletha Silva and Braz</p>	<p>2020</p>	<p>Artificial Intelligence, Nutritional surveillance</p>	<p>Among the available computational tools, artificial intelligence (AI) has gained more and more attention recently, since it is able to learn and model linear and nonlinear relationships between variables by constructing an input-output mapping such that hidden and extremely useful information for decision-making is revealed and interpret.</p>	<p>P: A large amount of data is collected by these technologies</p> <p>C:AI is not yet widely used in the areas of nutrition and fitness</p>



3.3 PROPOSED SOLUTION

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 achieveand 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 FIT

Project Title: Nutrition Assistant Application		Project Design Phase-I - Solution Fit Template		Team ID: PNT2022TMD33130	
Define CS, fit into CC	1. CUSTOMER SEGMENT(S) CS All age group people who are careless about their health due to their busy schedule and intake of high-calorie diet.	6. CUSTOMER CONSTRAINTS: CS 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.	5. AVAILABLE SOLUTIONS: CS 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.	Explore AS, differentiate	
	2. JOBS-TO-BE-DONE / PROBLEMS: J&P The problem 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.	9. PROBLEM ROOT CAUSE: RC 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.	7. BEHAVIOUR: BE 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.		

3. TRIGGERS: TR 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.	10. YOUR SOLUTION: SL The solution is user can know the nutritional content of the food they are intaking, by taking picture of the food and uploading it in the app. Clarifa's AI-Driven Food Detection Model is used for getting accurate food identification and APIs to give the nutritional value of the identified food	8. CHANNELS of BEHAVIOUR: CH 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 OFFLINE: Connecting all the users through offline meeting and giving some complimentary gifts. Conducting offline session by nutrition expert.
4. EMOTIONS: BEFORE / AFTER EM They scared of declining health, so they get motivated towards eating healthy foods and move to healthy lifestyle.		

REQUIREMENT ANALYSIS

FUNCTIONAL REQUIREMENTS

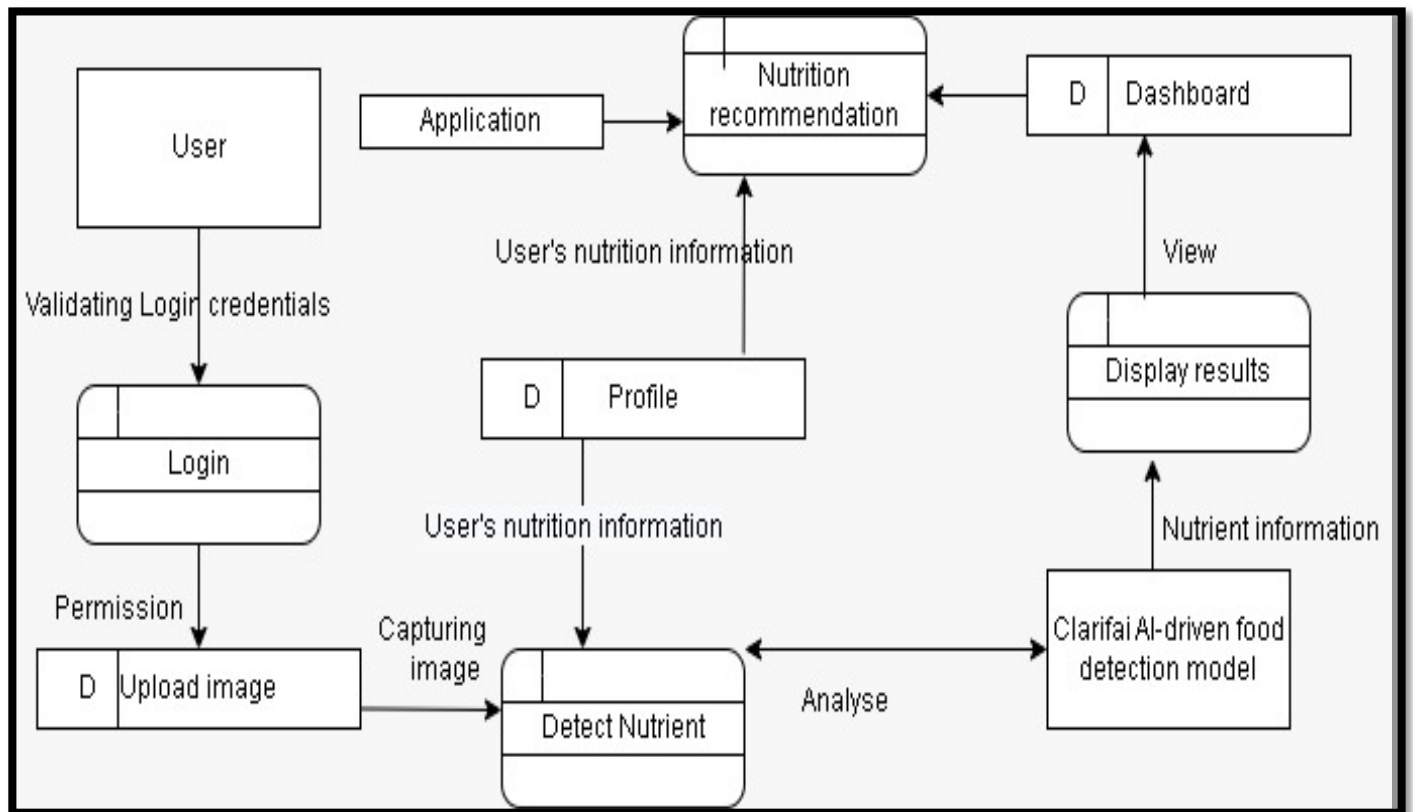
IDENTIFIER	REQUIREMENTS
1. Add health information	This application will allow to add health related information of the user.
2. Delete health information	This application will allow to delete the unwanted details about their health.
3. Categories of nutritional food	The categories of food.
4. View of Dashboard	Application will allow user to view the dashboard containing nutrition details.
5. Identifying the high calorie food	The high calorie ingredients will be shown via this application.
6. Identifying the low calorie food	The low calorie ingredients will be shown via this application.
7. Mail Notification	This application will allow to send mail notification to user when there are any issues regarding their health
8. Tracking System	The health can be tracked with this application.
9. Graph analysis	This application will demonstrate health condition by means of nutritional content
10. Passcode	This application has the option to set a passcode to keep their medical reports safe.
11. Add multiple accounts	This application has the option of creating multiple accounts for the users.
12. Selection of health report duration	This application has the ability to select the duration for displaying the health report as weekly or monthly.
13. Update account	This application will allow the user to update their profile.
14. Add account	This application will allow the user to add their profile.
15. Delete account	This application will allow the user to delete their profile.
16. PDF report	This application will generate the pdf report of medical analysis.
17. Pupation of nutritional trends	This application will allow constant review of nutritional trends and pupation.

4.1 NON-FUNCTIONAL REQUIREMENTS

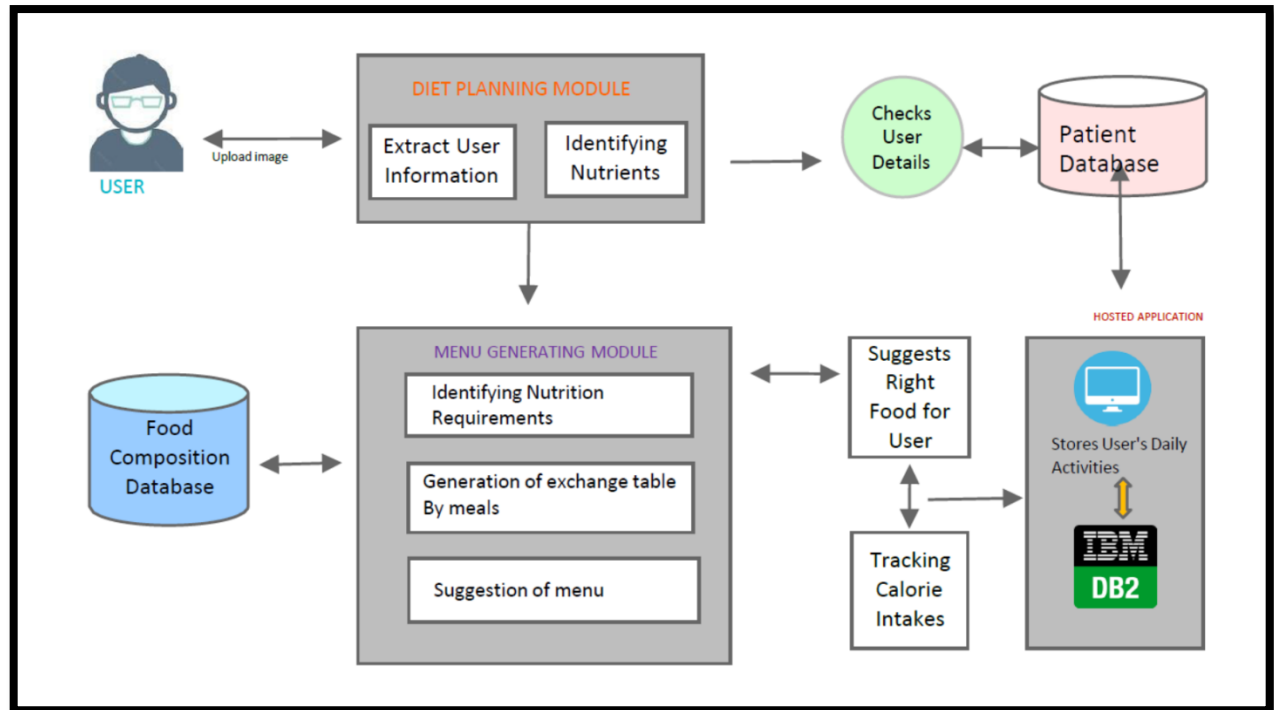
1. Usability
2. Security
3. Reliability
4. Performance
5. Availability
6. Scalability

PROJECT DESIGN

5.1 DATA FLOW DIAGRAMS



5.2 SOLUTION & TECHNICAL ARCHITECTURE



5.3 USER STORIES

1. As a user, I can register for the application by entering my email, password, and Confirm my password
2. As a user, I will receive confirmation email once I have registered for the application
3. As a user, I can log into the application by entering email & password
4. As a user, I can fill the details.
5. As a user, I can register for the application by entering my email, password, and Confirm my password
6. As a user, I will receive confirmation email once I have registered for the application
7. As a user, I can log into the application by entering email & password
8. As a user, I can fill the details.
9. As a user, I will search the food items.
10. As a user, I can scan the food and get the nutrition details and recipe for related scanned food.

PROJECT PLANNING PHASE
PROJECT PLANNING TEMPLATE (PRODUCT BACKLOG, SPRINT PLANNING, STORIES, STORYPOINTS)

TEAM ID	PNT2022TMD33130
PROJECT NAME	NUTRITION ASSISTANT APPLICATION

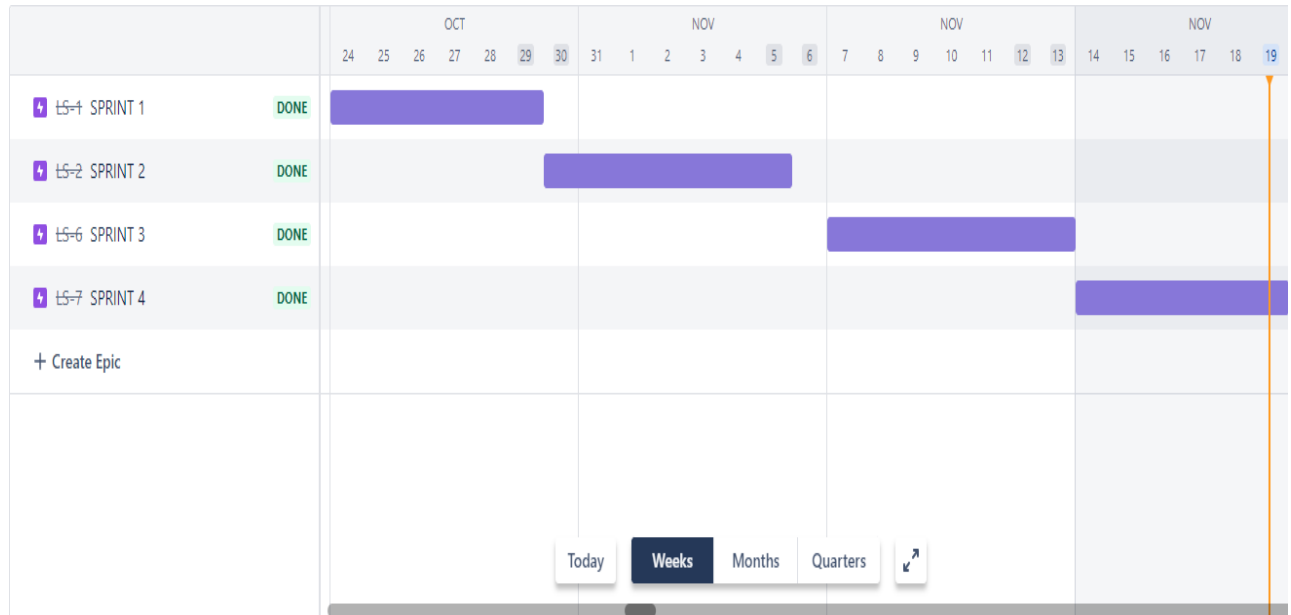
PRODUCT BACKLOG, SPRINT SCHEDULE, AND ESTIMATION (4 MARKS)

SPRINT	FUNCTIONAL REQUIREMENT (EPIC)	USER STORY NUMBER	USER STORY / TASK	STORY POINTS	PRIORITY	TEAM MEMBERS
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	MMADHUMITHA V.LAYASHREE S.Y.NIVETHITHA M.ROSE MISHNA
Sprint-1	Signing up	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	MMADHUMITHA V.LAYASHREE S.Y.NIVETHITHA M.ROSE MISHNA
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password	1	High	MMADHUMITHA V.LAYASHREE S.Y.NIVETHITHA M.ROSE MISHNA
Sprint-2	User details	USN-4	As a user, I can fill the Details.	2	High	MMADHUMITHA V.LAYASHREE S.Y.NIVETHITHA M.ROSE MISHNA
Sprint-3	Push notification	USN-5	As a user, I will search the food items.	2	Medium	MMADHUMITHA V.LAYASHREE S.Y.NIVETHITHA M.ROSE MISHNA
Sprint-4	Shown the nutrition details and Recipe for scanned food	USN-6	As a user, I can scan the food and get the nutrition details and recipe for related scanned food.	1	High	MMADHUMITHA V.LAYASHREE S.Y.NIVETHITHA M.ROSE MISHNA

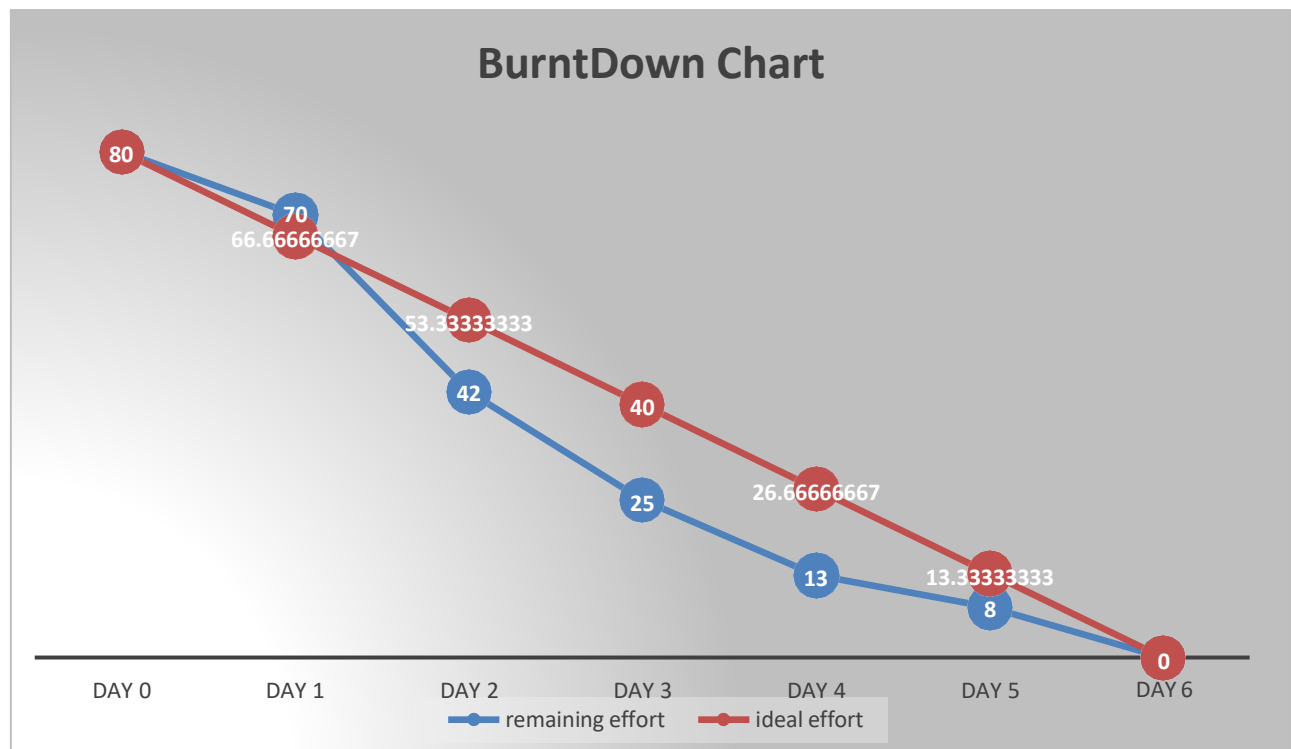
PROJECT TRACKER, VELOCITY & BURNDOWN CHART

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	29.10.2022
SPRINT-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05.11.2022
SPRINT-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	08.11.2022
SPRINT-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	09.11.2022

JIRA REPORT



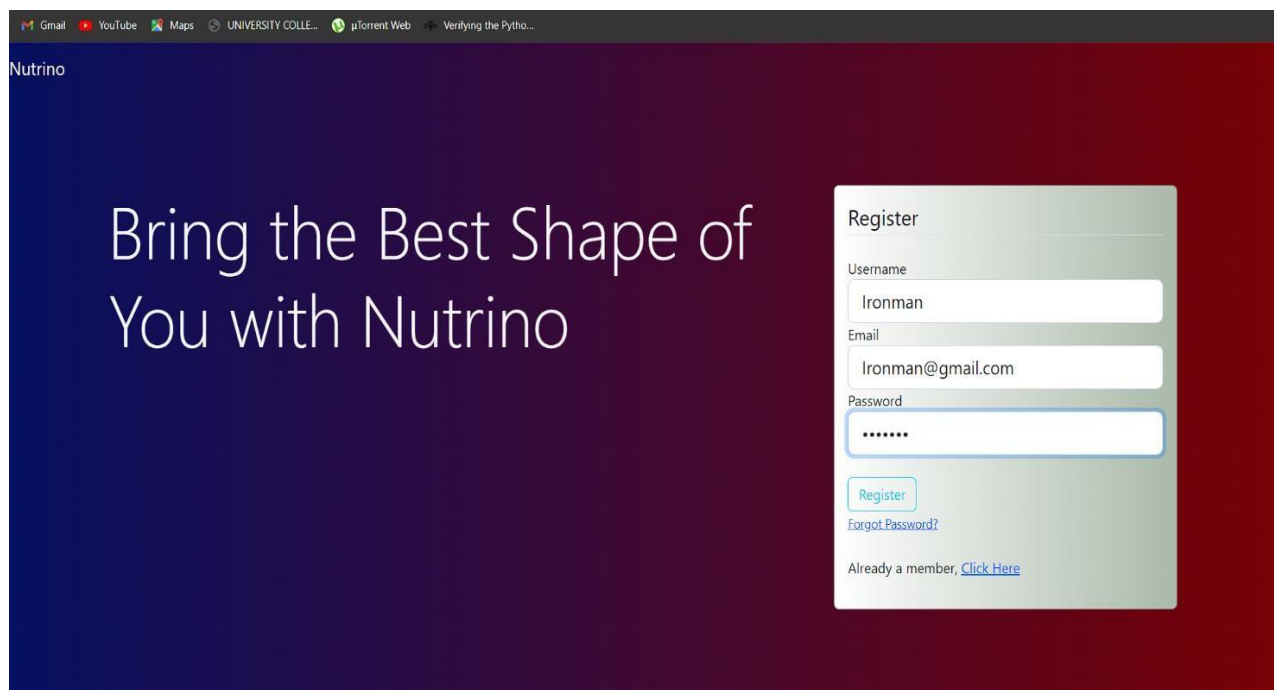
BURNT DOWN CHART



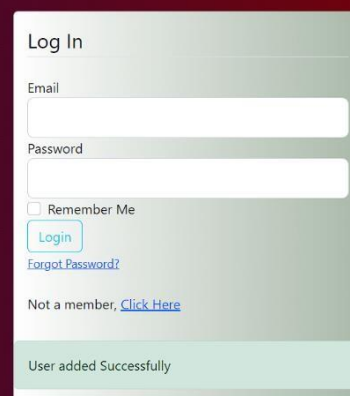
CODING & SOLUTIONING

7.1 FEATURE 1

- Enter the credentials to register and login to our Nutrino
- Already a user , use the login directly.
- Wrong login credentials will be notified.
- On correct username and password , user is directed to profile page .



Bring the Best Shape of You with Nutrino



Log In

Email

Password

☐ Remember Me

[Forgot Password?](#)

Not a member, [Click Here](#)

User added Successfully

7.2 FEATURE 2

- ✓ ***User is taken to the profile page , and the user's details are collected.***
- ✓ ***The BMI for the user's information is provided.***
- ✓ ***The dashboard with the user's daily intake of calorie is displayed.***



Be The Best Version Of Yourself With Nutrino

Add Your Details!

Age

Weight

Height(In metres)

[Add](#)

Your BMI is 27.76



Nutrino



Karthikeyan

karthisumathi21@gmail.com

Your BMI is 27.76

Calorie Intake:
250/2400

Food	Calories taken	Delete
Idly	250	Delete

Add Your Daily-day calories

Food
Calories

[Add Data](#)

Check the calorie of your food
[To Upload Image](#)

TESTING

8.1 TEST CASES

i. Our code was tested on different food to check whether it gives the correct output .

ii. The code is tested in every aspect to fulfill the customer's requirements

8.2 USER ACCEPTANCE TESTING

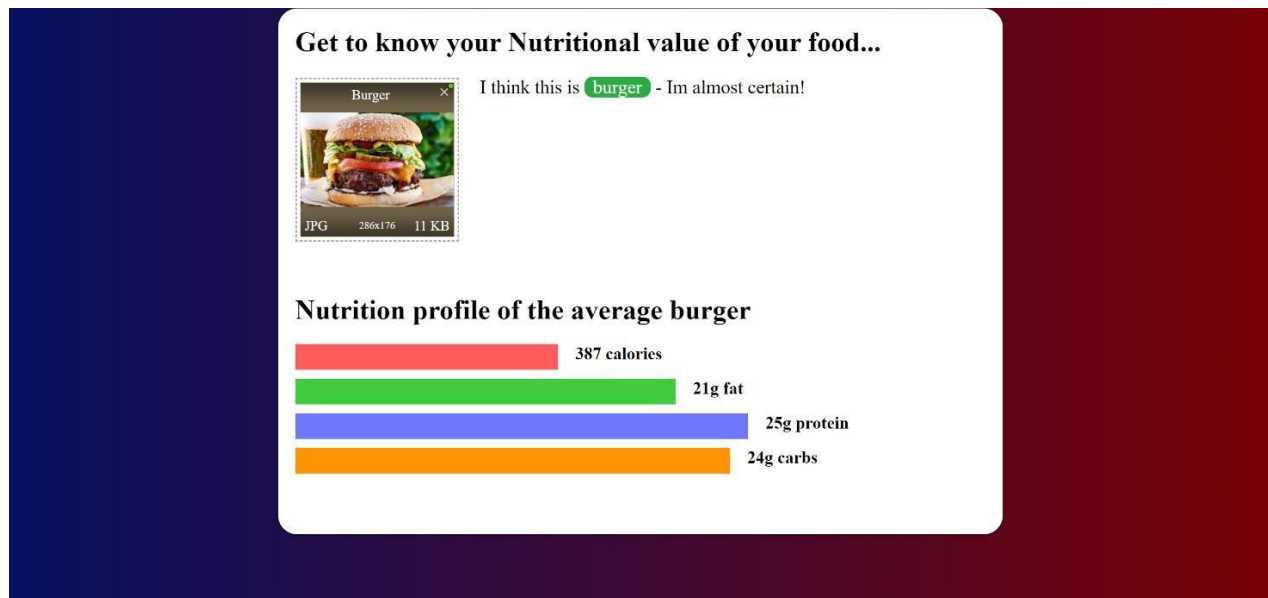
Our project is tested by an user to verify the working of the application

Test case ID	Feature Type	Component	Test Scenario	Pre-Requsite	Steps To Execute	Test Data	Expected Result	Actual Result	Status	Comments	TC for Automation(Y/N)	BUG ID	Executed By
LoginPage_TC_O1	Functional	Home Page	Verify user is able to see the Login/Signup popup when user clicked on My account button	Need to open the website and should have a basic knowledge about that website	1.Enter URL and click go 2.Click on My Account dropdown button 3.Verify login/Signup popup displayed or not.	Executed local host	Login/Signup popup should display	Working as expected	Pass		Yes		karthikeyan v
LoginPage_TC_O2	UI	Home Page	Verify the UI elements in Login/ Signup popup	Need to register your self with basic details such as email address	1.Enter URL and click go 2.Click on My Account dropdown button 3.Verify login/Signup popup with below UI elements: a.email text box b.password text box c.Login button d.New customer? Create account link e.Last password? Recovery password link	Executed local host	Application should show below UI elements: a.email text box b.password text box c.Login button with orange colour d.New customer? Create account link e.Last password? Recovery password link	Not Working as expected	Fail	Steps are not clear to follow	NO	BUG-1	Ashish k
LoginPage_TC_O3	Functional	Home page	Verify user is able to log into application with Valid credentials	in order to check for the valid credentials in login page. The user must sign in to the account	1.Enter URL(https://shopenizer.com) and click go 2.Click on My Account dropdown button 3.Enter Valid username/email in Email text box 4.Enter valid password in password text box 5.Click on login button	Username: karthik@gmail.com password: karthi123	User should navigate to user account homepage	Working as expected	pass		yes		Anusha k
LoginPage_TC_O4	Functional	Login page	Verify user is able to log into application with Invalid credentials	verify the login details with sign in details.	1.Enter URL(https://shopenizer.com) and click go 2.Click on My Account dropdown button 3.Enter Invalid username/email in Email text box 4.Enter valid password in password text box 5.Click on login button	Username: anusha@gmail.com password: anu5123	Application should show 'Incorrect email or password' validation message.	working as expected	pass		Yes		Lokeshwari S
LoginPage_TC_O4	Functional	Login page	Verify user is able to log into application with Invalid credentials		1.Enter URL(https://shopenizer.com) and click go 2.Click on My Account dropdown button 3.Enter Valid username/email in Email text box 4.Enter Invalid password in password text box 5.Click on login button	Username: karthik@gmail.com password: Te8716	Application should show 'Incorrect email or password' validation message.H10-H11	Working as expected	pass		Yes		Ashish k
LoginPage_TC_O5	Functional	Login page	Verify user is able to log into application with Invalid credentials		1.Enter URL(https://shopenizer.com) and click go 2.Click on My Account dropdown button 3.Enter Invalid username/email in Email text box 4.Enter Invalid password in password text box 5.Click on login button	Username: lokeshwan password: Lok@2001	Application should show 'Incorrect email or password' validation message.	Working as expected	pass		Yes		Anusha k

RESULTS

9.1 PERFORMANCE METRICS

The proposed procedure was implemented and tested on a set of different food images. The database consists of various images of food items. Once a food is recognized the equivalent nutritional values displayed on the screen.



ADVANTAGES

1. User is now able to track his daily calorie intake
2. He/she can now take effective measures to maintain a healthy bodyweight
3. It delivers the information on the nutritional value for food and how it should be maintained for your daily basis .

CONCLUSION

In our conclusion , many people now-a-days are not aware of their health condition and taking this conditions in hands and to save their time and money , and to lead the healthy life style , the change in food routine should be maintained . The goal of user either to increase or decrease bodyweight through regular calorie-intake tracking with simple yet efficient application is achieved. The users following their respective calories is highly enough to get them FIT.

FUTURE SCOPE

In future we'll be adding extra features that will engage our users a lot more . The interaction with the users will be a lot more easier . And extra dietary plans will be added for the user's .

APPENDIX

13.1 SOURCE CODE

```
from flask import Flask
from flask_sqlalchemy import SQLAlchemy
from flask_login import LoginManager
from flask_wtf import FlaskForm
from flask_bcrypt import Bcrypt
from wtforms import StringField, PasswordField, SubmitField, BooleanField
from wtforms.validators import DataRequired, Length, Email, EqualTo, ValidationError
from datetime import datetime
from flask_migrate import Migrate
from flask_login import UserMixin
from flask import render_template, url_for, flash, redirect, request, session
from flask_login import login_user, current_user, logout_user, login_required
from api import image

app = Flask(__name__)
app.config['SECRET_KEY'] = '5791628bb0b13ce0c676dfe280ba245'
# app.config['SQLALCHEMY_DATABASE_URI'] = 'sqlite:///site.db'
app.config['SQLALCHEMY_DATABASE_URI'] = 'mysql+pymysql://root:ashish210901@127.0.0.1/users'
#app.config['SQLALCHEMY_DATABASE_URI'] = 'ibm_db_sa://rfs19780:D2Ky1560xjrASE8s@2f3279a5-73d1-4859-88f0-a6c3e6b4b907.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud.com:3608'

db = SQLAlchemy(app)
bcrypt=Bcrypt(app)
migrate=Migrate(app,db)
login_manager = LoginManager(app)
login_manager.login_view = 'login'
login_manager.login_message_category = 'info'

@login_manager.user_loader
def load_user(user_id):
    return User.query.get(int(user_id))
```

```

class User(db.Model, UserMixin):
    id = db.Column(db.Integer, primary_key=True)
    username = db.Column(db.String(20), unique=True, nullable=False)
    email = db.Column(db.String(120), unique=True, nullable=False)
    image_file = db.Column(db.String(20), default='default.jpg')
    password = db.Column(db.String(60), nullable=False)
    details = db.relationship('detail', backref='admin', lazy=True)

    def __repr__(self):
        return f"User('{self.username}', '{self.email}', '{self.image_file}')"

class detail(db.Model, UserMixin):
    id=db.Column(db.Integer,primary_key=True)
    weight=db.Column(db.Integer,nullable=False)
    height=db.Column(db.Float,nullable=False)
    bmi=db.Column(db.Float,nullable=False)
    user_id=db.Column(db.Integer, db.ForeignKey('user.id'),nullable=False)

    def __repr__(self):
        return f"details('{self.weight}', '{self.height}','{self.bmi}')"

class RegistrationForm(FlaskForm):
    username = StringField('Username',
                           validators=[DataRequired(), Length(min=2, max=20)])
    email = StringField('Email',
                        validators=[DataRequired(), Email()])
    password = PasswordField('Password', validators=[DataRequired()])
    submit = SubmitField('Register')

    def validate_username(self, username):
        user = User.query.filter_by(username=username.data).first()
        if user:
            raise ValidationError('That username is taken. Please choose a different one.')

```

```

def validate_email(self, email):
    user = User.query.filter_by(email=email.data).first()
    if user:
        raise ValidationError('That email is taken. Please choose a different one.')

class LoginForm(FlaskForm):
    email = StringField('Email',
                        validators=[DataRequired(), Email()])
    password = PasswordField('Password', validators=[DataRequired()])
    remember = BooleanField('Remember Me')
    submit = SubmitField('Login')

class ProfileForm(FlaskForm):
    age = StringField('Age',
                     validators=[DataRequired()])
    weight = StringField('Weight',
                        validators=[DataRequired()])
    height = StringField('Height',
                        validators=[DataRequired()])
    remember = BooleanField('Remember Me')
    submit = SubmitField('Add')

@app.route("/")
@app.route("/login", methods=['GET', 'POST'])
def login():
    if current_user.is_authenticated:
        return redirect(url_for('dashboard'))
    form = LoginForm()
    if form.validate_on_submit():
        user=User.query.filter_by(email=form.email.data).first()
        if user and bcrypt.check_password_hash(user.password,form.password.data):

```

```

        if user and bcrypt.check_password_hash(user.password, form.password.data):
            login_user(user, remember=form.remember.data)
            return redirect(url_for('dashboard'))
        else:
            flash('Login Unsuccessful, Please Check Mail and Password')
    return render_template('home.html', form=form)

@app.route("/register", methods=['GET', 'POST'])
def register():
    if current_user.is_authenticated:
        return redirect(url_for('dashboard'))
    form=RegistrationForm()
    if form.validate_on_submit():
        hashed_password = bcrypt.generate_password_hash(form.password.data).decode('utf-8')
        user=User(username=form.username.data, email=form.email.data, password=hashed_password)
        db.session.add(user)
        db.session.commit()
        flash("User added Successfully")
        return redirect(url_for('login'))
    return render_template("register.html", form=form)

@app.route("/dashboard")
def dashboard():
    image_file=url_for('static',filename='pics/'+ current_user.image_file)
    return render_template('dashboard.html', image_file=image_file)

@app.route("/logout")
def logout():
    logout_user()
    return redirect(url_for('login'))

```

```

@app.route("/profile", methods=['GET', 'POST'])
def profile():
    form=ProfileForm()
    if form.validate_on_submit():
        weight=form.weight.data
        height=form.height.data
        x=float(weight)
        y=float(height)
        bmi=x/(y**2)
        bmi=round(bmi,2)
        details=detail(weight=weight, height=height, user_id=current_user.id, bmi=bmi)
        db.session.add(details)
        db.session.commit()
        login_user(details, remember=form.remember.data)
        flash("Your BMI is "+str(bmi))
    return render_template('profile.html', form = form)

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

```

13.2 GITHUB & PROJECT DEMO LINK

Github Link

<https://github.com/IBM-EPBL/IBM-Project-217-1658224468>

Project Demo Link

https://drive.google.com/file/d/1hDhrHDI2u4MeomFO9MswRvDv9tFVcZb0/view?usp=share_link