NAALAIYA THIRAN PROJECT

TEAM MEMBERS

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19/11/2022

PROJECT REPORT

DATE	19 November 2022
TEAM ID	PNT2022TMID36987
PROJECT NAME	AI-powered Nutrition Analyst for Fitness Enthusiasts

1.INTRODUCTION:

Lack of exercise plus poor eating habits remain significant causes for benign ailments such as heart disorder, insulin resistance, and fatness. These sorts of problems are responsible for seventy percent global mortality and impose a significant monetary load. To decrease such losses, gainful and workable standards of living are sorely required. Comprehensive way of living Programmes for comprehensive way of living have developed gradually in perfect sync with new virtual and advanced tools. Ai technology and related analytical modelling are now the major breakthrough in widening the terrain of medical services and initiatives in current history. Individuals in present era consume unhealthy foods and suffer from serious illnesses of one's incautious conduct. Such ailments seem to be treatable; however the patient's fitness declines. As a result, everyone should follow a healthy diet for their own good. This practise perfectly fulfils the criteria. The proposed methodology presents the client with a necessary nutrition plan by taking into account numerous parameters. The method computes the patient's Body fat percentage based on his or her age and build. It gives a person an appropriate nutrition program based on age, sex, tallness, muscle mass, and illness. Likewise, this strategy generates crash diet based upon the data provided by the client. It includes an authentication server in which the subscriber must sign up before using the plug-in. A risk of service interruption will be a drawback as the system entirely depends on the internet connectivity. The framework provides better accuracy because it recognises the patient's information and processes it based upon certain formulations by now defined to the implementation, mostly on core principle of which a proposed action is created and confirms with the client if the nutrition scheme is acceptable. In case the food chart is not acceptable by the client then framework will propose a different regimen.

Project overview

Food is essential for human life and has been the concern of many healthcare conventions. Nowadays new dietary assessment and nutrition analysis tools enable more opportunities to help people understand their daily eating habits, exploring nutrition patterns and maintain a healthy diet. Nutritional analysis is the process of determining the nutritional content of food. It is a vital part of analytical chemistry that provides information about the chemical composition, processing, quality control and contamination of food.

The main aim of the project is to building a model which is used for classifying the fruit depends on the different characteristics like colour, shape, texture etc. Here the user can capture the images of different fruits and then the image will be sent the trained model. The model analyses the image and detect the nutrition based on the fruits like (Sugar, Fibre, Protein, Calories, etc.).

1.2.Purpose

The goal of fitness tracking apps is to collect data about the user's activities. These include the number of steps taken, stairs climbed, distance ran, and other fitness metrics. To make it easy for users to monitor progress, create a fitness tracking app that will also provide calendars and charts

2. LITERATURE SURVE

Existing Problem

Sharing and collaboration are commonplace in today's social media-driven world. But the lack of regulation means it's all too easy for people to share information on fitness, health – and pretty much anything – without any factual backing. Combine this with standard challenges like <u>keeping clients motivated</u>, and there are problems in the fitness industry that can affect your business.

5 Main problems are:

Misinformation, One-Way Approach, Information Overload, Elitist Attitudes, Lack of Member Support

References

- https://www.healthifyme.com/in/
- Don't Lose Your Mind, Lose Your Weight

The country's highest-selling diet book, has revolutionized the way Indians think about food and their eating habits

Author: Diwekar Rujuta

• R.S. Pressman, Software Engineering: A Practitioner's Approach, McGraw-Hill, Ed 7,2010

P. Jalote, An Integrated Approach to Software Engineering, Narosa Publishing House, Ed 3, 2011

• https://www.engpaper.com/cse/artificial-intelligence-dietician.html

https://www.smartics.eu/confluence/display/PDAC1/How+to+document+a +Software+Development+Project

• https://en.wikipedia.org/wiki/Healthy_diet#:~:text=Eat%20healthy%20protein%3A%20good%20choices,because%20sweet%20drinks%20cause%20cravings.

Problem Statement Definition

• Misinformation:

a lot of the inadequate information that's spread over the internet and social media is evident to fitness professionals and personal trainers, the average person doesn't have the same level of knowledge. Often, this means that they're happy to jump on the latest fitness bandwagon – whatever it may be.

One-Way Approach:

Social media is an excellent resource for finding like-minded people with similar interests. This is brilliant because no matter what your interests, you can find a community of people who support you and share your passion.

• Information Overload:

You've seen the clients who keep changing their routine every few weeks. And you know the ones that aren't doing it to push through a plateau.

• Lack of Member Support:

The reason they leave is that they're unfulfilled. The idea hasn't lived up to expectations. Perhaps they lost motivation or lost sight of their goals. Maybe they were putting in the effort but didn't see the results they wanted.

3. Ideation & Proposed Solution

Empathy Map Canvas

In this Empathy Map we describe about

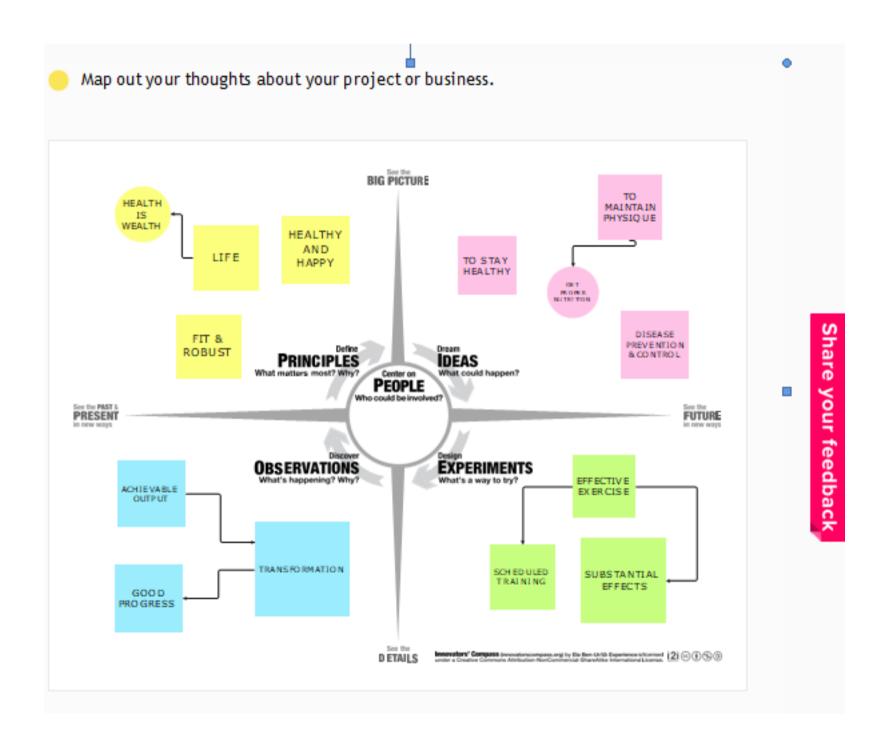
What do they,

- Think and feel
- Hear
- See
- Say and Do

Pain and Gain

Innovators' Compass

Map out thoughts as principles, ideas, experiments, and observations

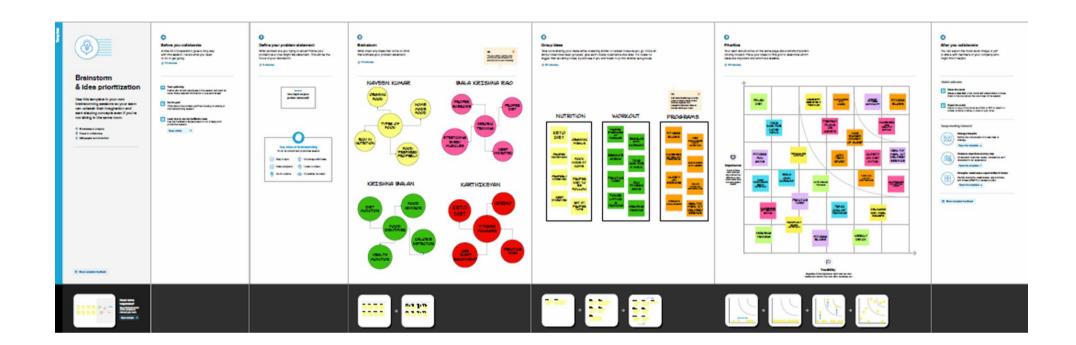


Ideation and Brainstorming

In this phase we discussed about

- Where to Start
- Time Management
- Friends and Family Support

Bad Health Habits



Proposed Solution

• Novelty/Uniqueness

Giving a individual Food/health Schedule According to their body conditions

• Social impact/Customer Satisfaction

Low expenditure ,easy to follow without affecting their personal time.

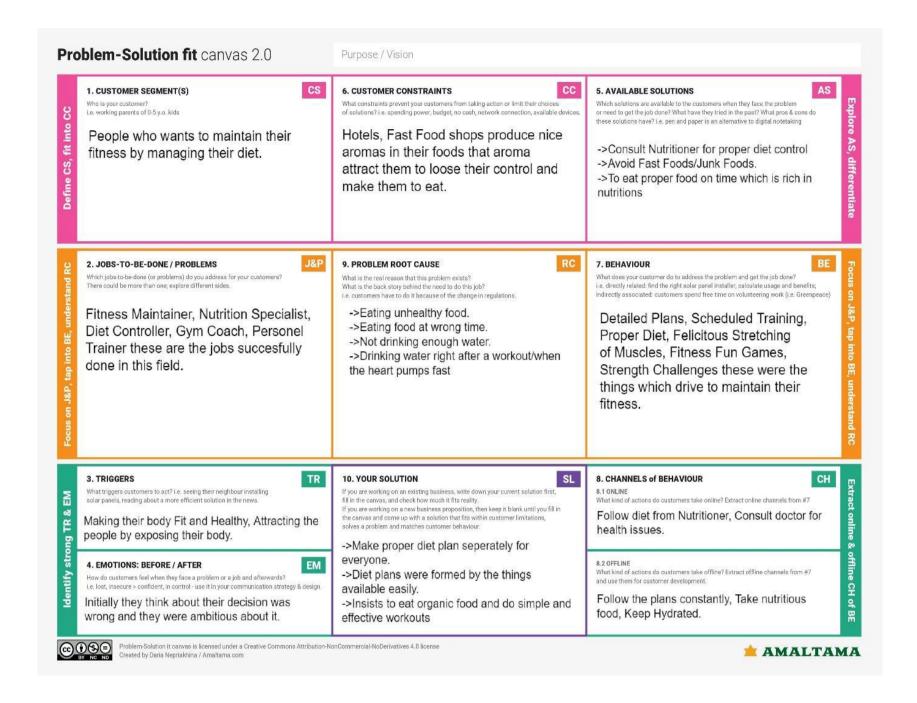
• Business model

Free platform for all users. For specific guidance users want to pay

Scalability of the Solution

Notifying motivational quote's to lead a healthy routine

Problem Solution Fit



4 Requirement Analysis

Functional Requirement

THE 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 GMAIL. REGISTRATION THROUGH PHONE NUMBER.
FR-2	USER CONFIRMATION	CONFIRMATION VIA EMAIL. CONFIRMATION VIA OTP.
FR-3	USER LOGIN	Login through Phone number. Login through Email.
FR-4	CHOOSE PACKAGE	SELECTION OF DESIRED PACKAGE.
FR-5	GENERATE THE DAILY PLAN	Daily plans will be generated accordingly by trainer separately.
FR-6	MANAGE PROGRESS REPORT	GATHERING INFORMATION FROM DATABASEAND GENERATING DAILY REPORT.
FR-7	QUERY	THE TRAINER CAN CHANGE PLANS ACCORDING TO THE USER NEEDS.

Non Functional Requirement

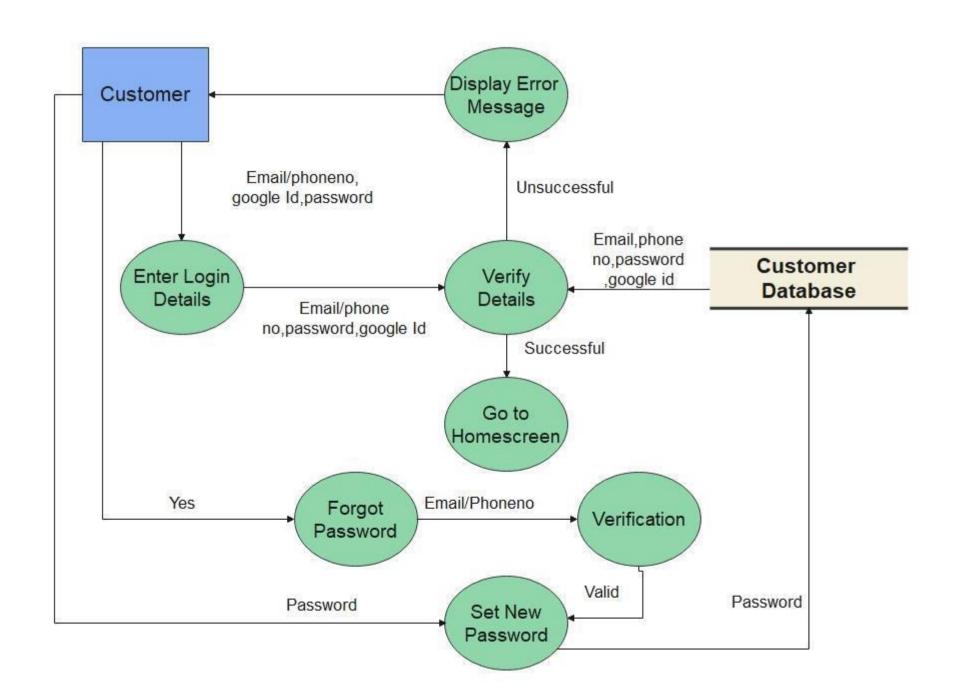
THE FOLLOWING ARE THE NON-FUNCTIONAL REQUIREMENTS OF THE PROPOSED SOLUTION

FR No.	FR No.	DESCRIPTION
NFR-1	FR No.	EASY TO USE, INTERACTIVE USER INTERFACE.
NFR-2	NFR-1	USER CAN ACCESS ONLY THEIR PERSONAL INFORMATION.
NFR-3	NFR-2	THE AVERAGE TIME OF FAILURE SHALL BE 3.4 DAYS.
NFR-4	NFR-3	THE RESULTS HAVE TO BE SHOWN WITHIN 24-48 HRS.
NFR-5	NFR-4	THE DIETICIAN SHALL BE AVAILABLE 24/7 TO USERS.
NFR-6	NFR-5	SUPPORTS VARIOUS HEALTHY FOOD.

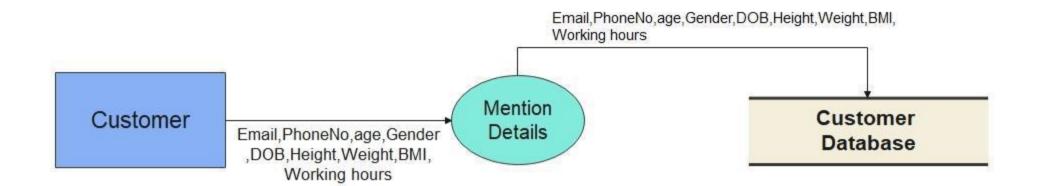
5. Project Design

Data Flow Diagrams

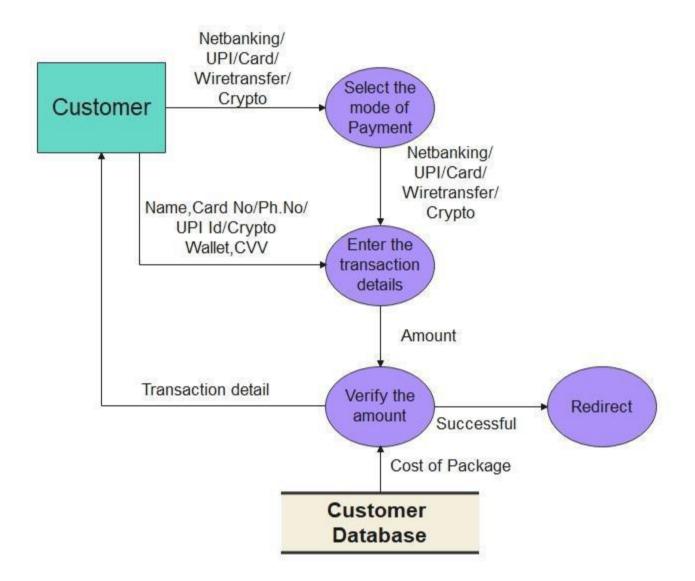
DFD -1(Login):



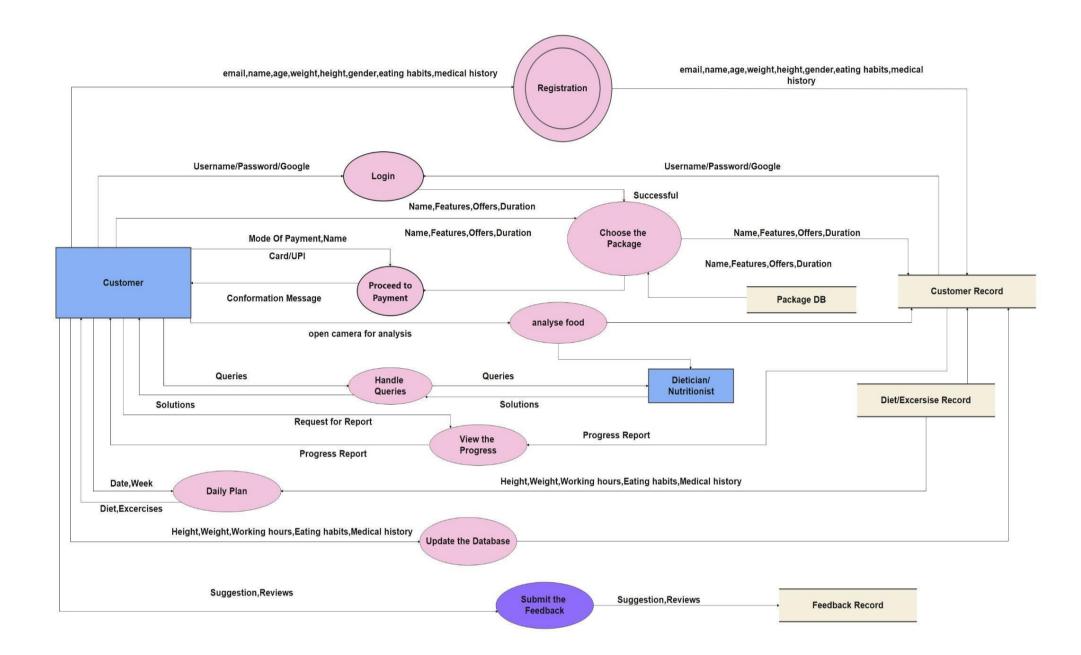
DFD -1(Registration):



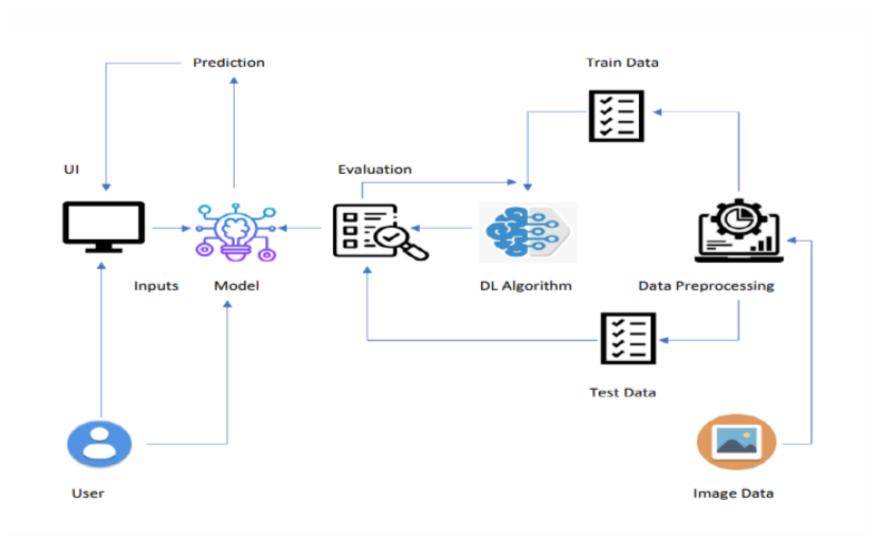
DFD -1(Payment):



DFD - 0:



Solution and Technical Architecture



USER STORIES:

USER TYPE	FUNCTIONAL REQUIREMENT	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 EMAIL, PASSWORD.	I CAN ACCESS MY	HIGH	SPRINT-1
		USN-2	AS A USER, I CAN REGISTER FOR THE APPLICATION THROUGH MOBILE NUMBER.	ACCOUNT/DASHBOARD.	HIGH	SPRINT-1
		USN-3	As a user, I will receive verification message once I have registered.	I RECEIVE CONFIRMATION MESSAGE & CLICK CONFIRMATION.	HIGH	SPRINT-1
	LOGIN	USN-4	AS A USER, I CAN LOG INTO THE APPLICATION BY ENTERING EMAIL & PASSWORD.	I CAN LOGIN USING THE	HIGH	SPRINT-1
		USN-5	AS A USER, I CAN LOGIN USING MOBILE NUMBER AND PASSWORD.	APPLICATION PASSWORD.	HIGH	SPRINT-1
	MAIN INTERFACE	USN-6	As a User, I can intake calorie by analysing according to my body.	ACCESS THE INFORMATION ABOUT NUTRITION & CALORIES.	HIGH	SPRINT-2
	DASHBOARD	USN-7	AS A USER, I CAN CHOOSE PACKAGE ACCORDING TO MY REQUIREMENT.	SELECTING A SUITABLE PACKAGE.	MEDIUM	SPRINT-2
CUSTOMER CARE EXECUTIVE	FEEDBACK, TOLLFREE NUMBER	USN-8	AS A CUSTOMER CARE EXECUTIVE, I COLLECT FEEDBACKS FROM CUSTOMER AND PROVIDE SOLUTIONSFOR QUERIES.	MAINTAIN PROPER WORKING OF THE APPLICATION AND ENVIRONMENT.	HIGH	SPRINT-2
DIETITIAN	CUSTOMER RECORD	USN-9	As a dietitian, I provide daily plansfor the advancement of user.	POSITIVE RESULTS FROM USER.	HIGH	SPRINT-2
ADMINISTRATOR	DASHBOARD	USN-10	AS AN ADMINISTRATOR I TAKE CARE OF ALL THE OPERATION WHICH TAKESPLACE INSIDE THE APP.	ZERO ISSUES FROM USER.	HIGH	SPRINT-2

6. Project Planning and Scheduling:

. Sprint Planning and Estimation:

SPRINT	FUNCTIONAL REQUIREMENT	USER STORY NUMBER	USER TASK/STORY	STORY POINTS	PRIORITY	TEAM MEMBERS	
SPRINT-1	REGISTRATION	USN-1	PASSWORD.		HIGH	G. BALA KRISHNA RAO.	
SPRINT-1	Login	USN-2	USER CAN LOGIN USING THE SAME EMAIL & PASSWORD.	10	HIGH	V. Krishna Balan.	
SPRINT-1	MAIN PAGE	USN-3	HOME PAGE, NAVIGATE THROUGH APPLICATION EASILY.	10	High	J.S NAVEEN KUMAR. R. KARTHIKEYAN.	
SPRINT-2	MODEL BUILDING	USN-4	DEVELOP MODEL WITH PREPARED DATASET.	10	High	G. BALA KRISHNA RAO.	
SPRINT-2	Main Interface	USN-5	USER CAN INTAKE CALORIES ACCORDING TO USER BODY.	10	Нібн	R. KARTHIKEYAN. J.S NAVEEN	
SPRINT-2	DASHBOARD	USN-6	USER CAN CHOOSE PACKAGE ACCORDING TO THEIR NEEDS.	7	MEDIUM	KUMAR.	
SPRINT-2	MOTIVATION QUOTES	USN-7	USER GETS DAILY MOTIVATION QUOTES.	8	HIGH	G. BALA KRISHNA RAO.	
Sprint-2	SEARCHING	USN-8	USER CAN SEARCH FOOD ACCORDING TONEED.	8	High		
SPRINT-3	DIET PLAN	USN-9	DIETITIAN PROVIDE DAILY PLANS FOR USER.	9	Нібн	V. Krishna	
SPRINT-3	PERSONALIZED DIETITIAN	USN-10	PREMIUM USER GET DIETS FROM A SPECIFIED DIETITIAN DAILY.		MEDIUM	BALAN. J.S NAVEEN	
SPRINT-3	Monitoring	USN-11	MONITOR DAILY WATER INTAKE AND GET PERIODIC REMAINDERS.	R. K		Kumar. R. Karthikeyan.	
SPRINT-3	HEALTH DETAILS MANAGEMENT	USN-12	USER GET DIETS ACCORDING TO BODY CONDITION OF USER.	6	MEDIUM		
SPRINT-3	STORING DATA	USN-13	USER CAN STORE DATA TO PREDICT HEALTH CONDITIONS.	7	Medium	J.S NAVEEN KUMAR.	
Sprint-3	REPORT PAGE	USN-14	USER CAN REPORT QUERIES.	9	High	G. Bala Krishna	
Sprint-3	Dashboard	USN-15	USER CAN VIEW THE SOLUTION FOR THEIR QUERY.	9	High	RAO.	
SPRINT-4	BASIC EXERCISE	USN-16	USER CAN FOLLOW EXERCISE & 10 MAINTAIN PROPER WEIGHT.		High	J.S NAVEEN KUMAR.	
SPRINT-4	HOME REMEDIES	USN-17	USER CAN FOLLOW HOME MEDICINE FOR COMMON DISEASES (COLD, FEVER, ETC.).		High	R. KARTHIKEYAN.	
SPRINT-4	Analyse Data	USN-18	USER ANALYSE PREVIOUS RECORDS TO CHECK IMPROVEMENTS.	8	High	G. BALA KRISHNA	
SPRINT-4	USER EXPERIENCE	USN-19	DEVELOPER PROVIDE SMOOTH & CLEAN INTERFACE TO USER.	10	High	RAO. V. Krishna	
SPRINT-4	PAYMENT	USN-20	DEVELOPER CREATE EASY PAYMENT 8 HIGH GATEWAY WITH PAYMENT OPTIONS.		BALAN. J.S NAVEEN		
SPRINT-4	FEEDBACK	USN-21	USER CAN PROVIDE FEEDBACK	6	Medium	KUMAR.	
SPRINT-4	SECURITY CHECK	USN-22	ADMINISTRATOR MUST CONFIRM THAT 10 HIGH DATA ARE SECURED.			R. Karthikeyan.	
SPRINT- 1	Logout	USN-23	USER CAN LOGOUT FROM APP.	9	High		

6.2. Spíint Deliveíy 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	24 Oct 2022	29 Oct 2022	20	2 Nov 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	03 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	10 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	17 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 (story points per day)

PROJECT TRACKER, VELOCITY & BURN DOWN (4 MARKS):

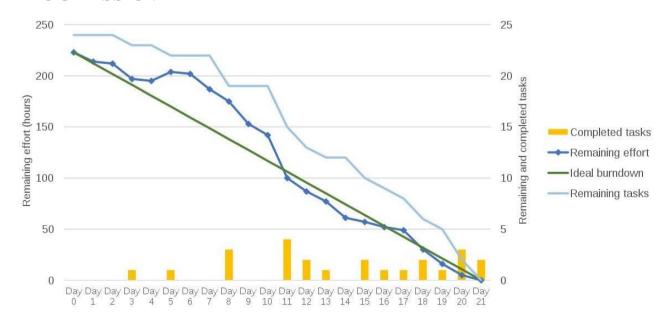
VELOCITY:

IMAGINE WE HAVE 10-DAY SPRINT DURATION, AND THE VELOCITY OF THE TEAM IS 20 (POINTS/SPRINT). LET'S CALCULATE THE TEAM'S AVERAGE VELOCITY (AV)/ITERATION UNIT (STORY POINTS/DAY).

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

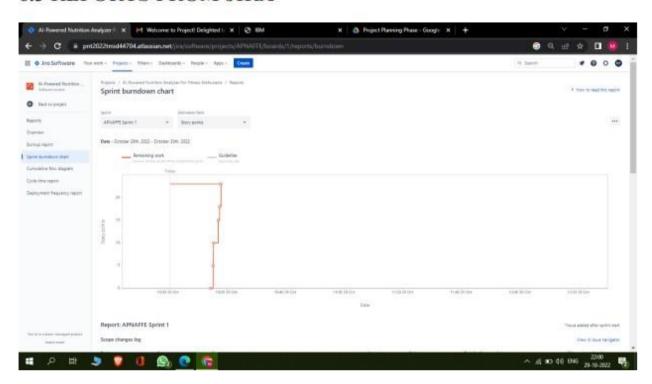
BURN DOWN CHART:

A BURN DOWN CHART IS A GRAPHICAL REPRESENTATION OF WORK LEFT TO DO VERSUS TIME. IT IS OFTEN USED INAGILE SOFTWARE DEVELOPMENT METHODOLOGIES SUCH AS SCRUM. HOWEVER, BURN DOWN CHARTS CAN BE APPLIED TO ANY PROJECT CONTAINING MEASURABLE PROGRESS OVER TIME.



6.3 Projects from JIRA

6.3 REPORTS FROM JIRA

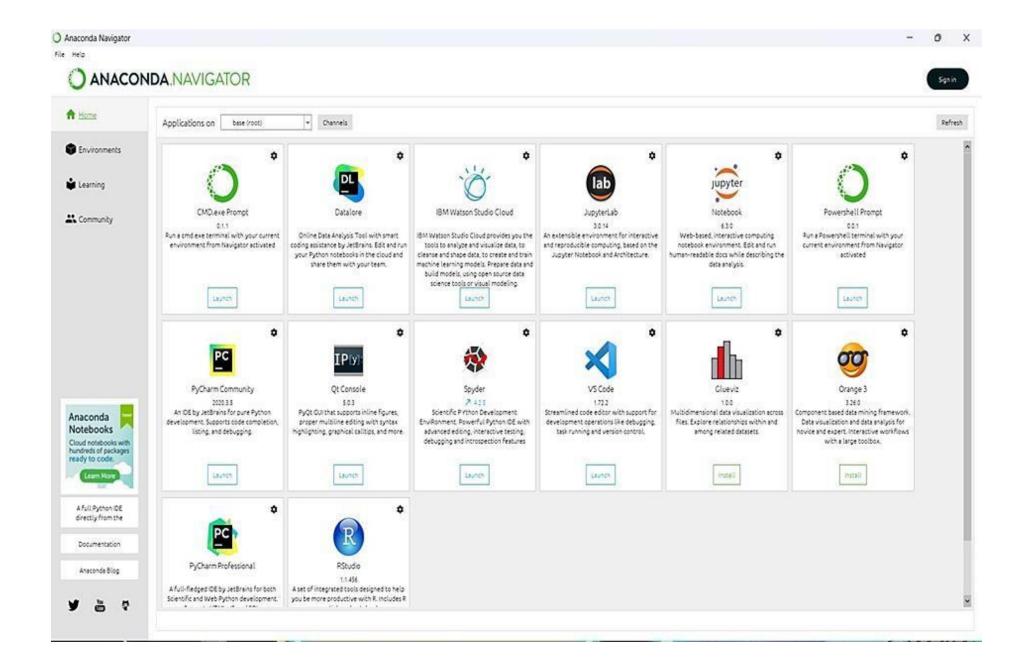


7. Coding and solutioning

Ïeatuíe 1

If you are using anaconda navigator, follow the below steps to download the required packages:

- 1. Open anaconda píompt as administíatoí.
- 2. l'ype "pip install tensoiflow==1.14.0" and click entei.
- 3. l'ype "pip install keías=2.2.4" and click enteí.
- 4. l'ype "pip install opency-python" and click enteí.
- l'ype "pip install imutils" and click enteí
- 5. l'ype "pip install flask" and click ente i 9080051046



```
D
          V SUBAVANI.HTML
            # thanks.css
                                                                                                                  <meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="X-UA-Compatible" content="ie=edge">
                                                                                                                   <title>HOME</title>
                                                                                                                <\title>HCME</title>
k rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
<link href="https://cdn.bootcss.com/bootstrap/4.0.0/css/bootstrap.min.css" rel="stylesheet">
<script src="https://cdn.bootcss.com/popper.js/1.12.9/umd/popper.min.js"></script>
<script src="https://cdn.bootcss.com/jquery/3.3.1/jquery.min.js"></script>
<script src="https://cdn.bootcss.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>
<link href="{{ url_for('static', filename='css/main.css') }}" rel="stylesheet">
tyle>
box-shadow: 0 4px 8px 0 □rgba(0, 0, 0, 0.2);
                                                                                                             max-width: 300px;
                                                                                                             margin: auto;
                                                                                                             text-align: center;
font-family: arial;
                                                                                                          .title {
  color: □grey;
  font-size: 18px;
                                                                                                            border: none;
                                                                                                             outline: 0;
display: inline-block;
padding: 8px;
color: ■white;
background-color: □#000;
                                                                                                                                                                                                                                                                                             1 Do you mind taking a quick feedback survey?
                                                                                                              text-align: center;
                                                                                                                                                                                                                                                                                                                           Take Survey Remind Me later Don't Show Again
                                                                                                              cursor: pointer;
width: 100%;
        > OUTLINE
```

```
Data Collection

Download the dataset here

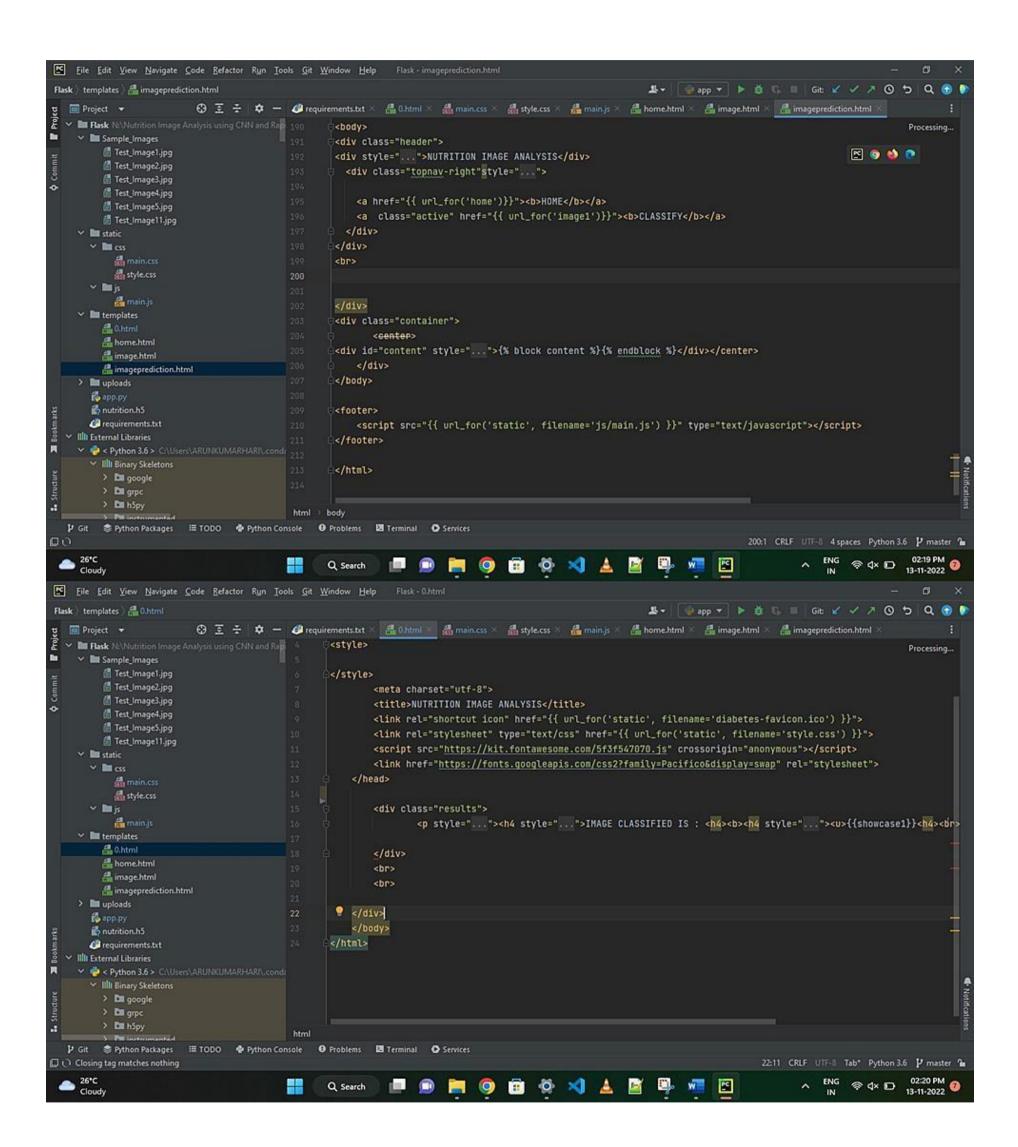
[ ] from google.colab import drive drive.mount('/content/drive')

Mounted at /content/drive

[ ] cd/content/drive/MyDrive/Colab Notebooks
/content/drive/MyDrive/Colab Notebooks

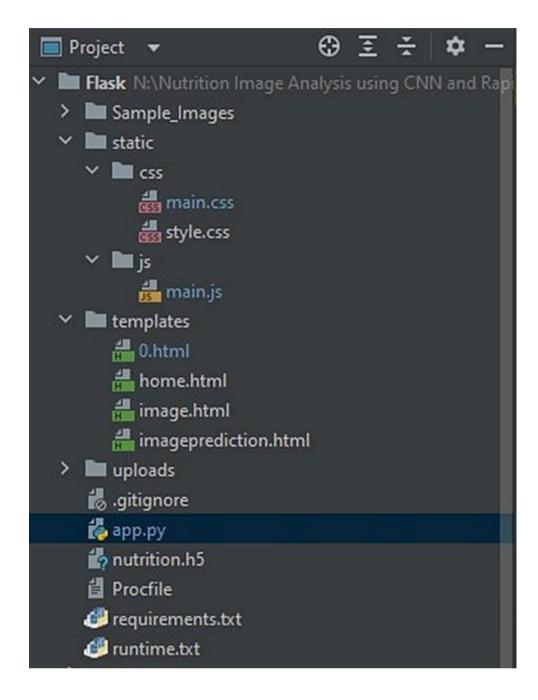
[ ] # Unzipping the dataset lunzip 'Dataset.zip'
```

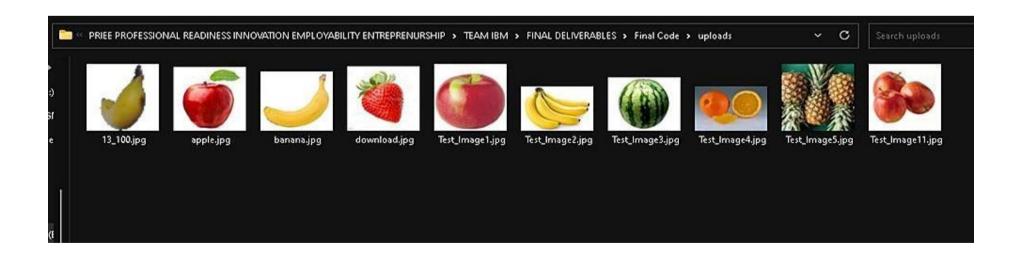
```
3. Adding CNN Layers
      classifier = Sequential()
      classifier.add(Conv2D(32, (3, 3), input_shape=(64, 64, 3), activation='relu'))
      classifier.add(MaxPooling2D(pool_size=(2, 2)))
      classifier.add(Conv2D(32, (3, 3), activation='relu'))
      classifier.add(MaxPooling2D(pool_size=(2, 2)))
      classifier.add(Flatten())
  4. Adding Dense Layers
      classifier.add(Dense(units=128, activation='relu'))
      classifier.add(Dense(units=5, activation='softmax'))
O
      classifier.summary()
    Model: "sequential_1"
     Layer (type)
                                  Output Shape
                                                            Param #
     conv2d (Conv2D)
                                  (None, 62, 62, 32)
                                                            896
```



8. Testing

Test Cases





User Acceptance Testing



We are performing White Box Testing for select the package module.

Pseudocode for select the package module is-

- 1. select_the_package() píoceduíe begins
- 2. READ the package name, featules, offels and dulation from the package database
- 3. DISPLAY the package name, features, offers and duration
- 4. DO
- 5. GEl' the package name, featuies, offeis and duiation
- 6. STORE the package selected to the customes's database
- 7. PROCEED to payment scíeen //anotheí module
- 8. WHILE select package is NULL
- 9. //End DO...WHILE

10.píoceduíe ends

FLOWGRAPH

CYCLOMATIC COMPLEXITY OF RESULTANT GRAPH

$$V(G) = Number of regions$$

=2

$$V(G) = Edges-Nodes+2$$

= 8-8+2

=2

V(G) = Predicate nodes+1

= 1+1

= 2

LINEARLY INDEPENDENT PATHS FOR FLOW GRAPHS

Path 1: 1-2-3-4-5-6-7-8-9-10

Path 2: 1-2-3-4-5-6-7-8-4-5-6-7-8-9-10

TEST	INPUT	ACTUAL	
ID	VALUES	OUTPUT	EXPECTED OUTPUT
	Package is	To be observed after	
1	selected	execution	Display the selected package
	Package is not	To be observed after	Show the packages to select
2	selected	execution	until one is selected

Test Cases Table

9. Peífoímance l'esting

```
File Edit View Navigate Code Refactor Run Tools Git Window Help Flask-app.py
                         😌 🗵 😤 🗢 🥔 requirements.txt 🗵 📇 0.html 🗵 🚜 main.css 🔻 🚜 style.css 🗵 🚜 main.js 🗡 👸 app.py 🐸 📇 home.html 🤊
   Flask NANutrit
                     ge Analysis using CNN and Rap 11 model=load_model('nutrition.h5')
                                                print("Loaded model from disk")
        Test_Image1.jpg
        Test_Image2 jpg
        To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.
        Loaded model from disk
          * Serving Flask app 'app' (lazy loading)
         * Environment: production
           WARNING: This is a development server. Do not use it in a production deployment.
          Use a production WSGI server instead.
          * Debug mode: on
         2022-11-13 14:47:13.521039: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudar
         2022-11-13 14:47:13.523308: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not have a GPU set up on your machine
         Loaded model from disk
         2022-11-13 15:03:52.074467: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library 'nvcuda.dll'; dlerror: nvcuda.dll
         2022-11-13 15:03:52.769818: W tensorflow/stream_executor/cuda/cuda_driver.cc:269] failed call to cuInit: UNKNOWN ERROR (303)
         2022-11-13 15:03:54.596275: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:169] retrieving CUDA diagnostic information for host: LAPTOP-E5IM4603
         2022-11-13 15:03:54.619299: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:176] hostname: LAPTOP-E5IM4603
         2022-11-13 15:03:57.062699: I tensorflow/core/platform/cpu_feature_guard.cc:142] This TensorFlow binary is optimized with oneAPI Deep Neural Network Library
          * Debugger is active!
          * Debugger PIN: 589-305-535
          * Running on <a href="http://127.0.0.1:5000/">http://127.0.0.1:5000/</a> (Press CTRL+C to quit)
  17:99 Python 3.6 P master %
                                                                                  💼 🔅 刘 🛕 📓 🖫 📧
```

10. Advantages

- Monitor Your Diet Easily. Weight watchers or people who want to gain weight can mention the type and amount of foods consumed at each meal.
- Monitor Your Progress.
- o Give Free Health and Fitness Tips. .
- o Track Your Foot Steps. ...
- o Provide Personal Health Coaches.
- o All In One Health Tool.
- o Keep You Motivated.

Disadvantages

- c Cost of using
- o Fitness Trackers Collect and Store Your Health Data.
- o Fitness Trackers Can Provide Inaccurate Results.
- Fitness Trackers May Lead to an Obsession With Numbers

11. Conclusion

Engaging in regular physical activity may produce improvements in an individual's physical health, cognitive performance, and psychological well-being. Physical benefits include, but are not limited to, reduced risk for diseases, and improvements in physical functioning, fitness, and overall quality of life.

l'he puípose of a fitness app is to píovide the useí with instituctions and examples of one oi moie types ofexeícise, physical activity, nutíitional píogíams

12. Future Scope

- Offeis payment convenience in peisonal tiaining subsciiptions.
- Useful aíticles.
- Video instíuctions.
- Diet Plans.
- Individual píogíess tíacking.
- Live video fíom tíaining sessions

13. Appendix

Souice Code:

```
<IDOCI*YPE html>
<html>
<html>
<head>
<meta chaíset="Ul'I-8">
<meta name="viewpoít" content="width=device-width, initial-scale=1.0">
<meta http-equiv="X-UA-Compatible" content="ie=edge">
<tittle>HOME</title>
link íel="stylesheet" híef="https://cdnjs.cloudflaíe.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">
link híef="https://cdn.bootcss.com/bootstíap/4.0.0/css/bootstíap.min.css" íel="stylesheet">
<scîipt síc="https://cdn.bootcss.com/poppeí.js/1.12.9/umd/poppeí.min.js"></scîipt>
<scîipt síc="https://cdn.bootcss.com/jqueíy/3.3.1/jqueíy.min.js"></scîipt>
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<scîipt síc="https://cdn.bootcss.com/joueíy/3.3.1/jqueíy.min.js"></sciipt>
<sciipt síc="https://cdn.bootcss.com/joueíy/3.3.1/jqueíy.min.js"></sciipt>
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<sciipt síc="https://cdn.bootcss.com/joueíy/3.3.1/jqueíy.min.js"></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt></sciipt
```

```
<style>
.caíd1 {
 box-shadow: 0 \ 4px \ 8px \ 0 \ igba(0, 0, 0, 0.2);
  max-width: 300px;
  maígin: auto;
  text-align: centeí;
 font-family: aiial;
.title \{
 coloí: gíey; font-
 size: 18px;
button \{
 boídeí: none;
 outline: 0;
  display: inline-block;
  padding: 8px;
  coloí: white;
  backgíound-coloí: 000;
  text-align: centeí; cuísoí:
 pointeí;
  width: 100%;
 font-size: 18px;
a {
 text-decoíation: none;
  font-size: 22px;
  coloí: black;
}
button:hoveí, a:hoveí {
 opacity: 0.7;
.navbaíScíoll.navbaíDaík {
```

```
backgiound-coloi: black;
}
body
{

backgiound-image: uil("https://www.livingpioofnyc.com/wp-content/themes/livingpioof/assets/img/heio-backgiound.jpg");
backgiound-size: coveí;
}
.bai
{

maigin: 0px;
padding:30px;
backgiound-coloi:black;
opacity:0.6;
coloi:ied;
font-family:'Roboto',sans-seiff;
font-style: italic;
boidef-fadius:30px;
font-size:10px;
}
```

```
.headeí { position: felative;top:0;
    maígin:0px;
    z-index: 1;
    left: 0px;
    fight: 0px;
    position: fixed;
    backgíound-coloí: violet;
    coloí: white;
    box-shadow: 0px 8px 4px gíey;
    oveíflow: hidden;
    padding-left:10px;
    font-family: 'Josefin Sans'
    font-size: 1.5vw;
```

width: 100%;

```
height:10%;
     .topnav {
 oveíflow: hidden;
 backgíound-coloí: #CAD98;
.topnav-íight a {
 float: left;
 coloí: black;
 text-align: centeí;
 padding: 14px 16px;
 text-decoíation: none;
 font-size: 18px;
.topnav-íight a:hoveí {
 backgíound-coloí: #DC00;
 coloí: black;
.topnav-íight a.active {
 backgiound-coloi: #DC00;
 coloí: black;
.topnav-\hat{\mathbf{iight}} {
 float: íight;
 padding-íight:100px;
.navbaíScíoll.navbaíDaík {
  backgíound-coloí: black;
```

```
.ct-socials {
  position: fixed;
  top: 25%;
  íight: 0;
backgíound-coloí: blue;
  padding-left: 20;
  maígin: 50;
  padding: 10px;
 font-size: 10px;
 width: 40px;
 text-align: centeí;
 boídeí: 80px;
. section.t\'iad\text{-}section \ \{
 maígin-top: 10px;
section.section h2 {
  font-size: 20px;
  line-height: 46px;
  maígin-bottom: 20px;
  text-align: centeí;
  maígin-top: 0;
}
h2 {
  coloí: #00;
h1, h2, h3, h4, h5, h6 {
  font-weight: 200;
```

```
letteí-spacing: -1 px;
  font-size: 30px;
}
section.section p.sub-heading {
  font-size: 16px;
  font-family: "Gotham SSm A", "Gotham SSm
  B";font-weight: 300;
  text-align: centeí;
  maígin-bottom: 40px;
section.t\'iad\text{-}section\ .t\'iad\text{-}sub\text{-}section\ \{
  padding-íight: 60px;
section p.detail-paíagíaph:fiíst-child {
  maígin-top: 0;
section p.detail-paíagíaph {
  font-family: 'Open Sans Condensed', sans-seíif;
  maígin-top: 40px;
  font-size: 18px;
  coloí: 900;
b, stíong \{
  font-weight: 700;
.bgimage \{
  height:100vh;
  backgíound: uíl('images/heíoImage.jpg');
  backgíound-size:coveí;
  position:íelative;
. he \'io\_title~\{
  font-size: 4.5íem;
. he\'io\_desc~\{
  font-size: 2íem;
```

```
}
.heío-text {
  text-align: centeí;
  position: absolute;
  top: 50%;
  left: 50%;
  tíansfoím: tíanslate(-50%, -50%);
  coloí: white;
.imageAboutPage {
  width: 100%;
#seívices .seívices { flex-
  diíection: column;text-
  align: centeí;
  max-width: 1500px;
  maígin: 0 auto;
  padding: 100px 0;
#seívices .seívice-top {
  max-width: 500px;
  maígin: 0 auto;
#seívices .seívice-bottom {
  display: flex;
  align-items: centeí;
  justify-content: centeí;
  flex-wíap: wíap;
  coloí: íed;
  maígin-top: 50px;
#seívices .seívice-item {
  flex-basis: 80%;
  display: flex;
  align-items: flex-staít;
```

```
justify-content: centeí;
  flex-diíection: column;
  coloí: íed;
  padding: 30px;
  boídeí-íadius: 10px;
  backgiound-image: uíl(./img/img-1.png);
  backgíound-size: coveí;
  maígin: 10px 5%;
  position: íelative;
  z-index: 1;
  oveíflow: hidden;
#seívices .seívice-item::afteí {
  content: ";
  position: absolute;
  left: 0;
  top: 0;
  height: 100%;
  width: 100%;
  backgiound-image: lineaí-giadient(60deg, 29223c 0%, 485263 100%);
  opacity: 0.9;
  z-index: -1;
#seívices .seívice-bottom .icon {
  height: 80px;
  width: 80px;
  maígin-bottom: 20px;
#seívices .seívice-item h2 {
  font-size: 2íem;
  coloí: íed;
  maígin-bottom: 10px;
  text-tíansfoím: uppeícase;
  text-align: left;
\hbox{\#seívices .seívice-item p } \{
  coloí: white;
  text-align: left;
```

```
#seívices .seívice-item a {
  coloí: white;
  text-align: centeí;
.section-title { font-
  size: 4íem;
  font-weight: 300;
  coloí: black;
  maígin-bottom: 10px;
  text-tíansfoím: uppeícase;
  letteí-spacing: 0.2íem; text-
  align: centeí;
.section-title span \{
  coloí: cíimson;
.cta:hoveí {
  coloí: white;
  backgíound-coloí: cíimson;
.bíand h1 {
  font-size: 3íem;
  text-tíansfoím: uppeícase;
  coloí: white;
.bíand h1 span {
  coloí: cíimson;
.bíand a \{
  font-size: 3íem;
  text-tíansfoím: uppeícase;
  coloí: 1ºomato;
```

```
.bíand a span {
  coloí: cíimson;
.bíand p{
  text-tíansfoím: uppeícase;
  coloí: 1ºomato;
    font-size: 4íem;
  font-weight: 300;
  maígin-bottom: 10px;
  text-tíansfoím: uppeícase;
  letteí-spacing: 0.2íem; text-
  align: centeí;
.bíand p span {
  coloí: cíimson;
#logo {
float: íight;
}
.face{
  position: íelative;
  width: 250px;
  height: 250px;
  boídeí-íadius: 50%;
  backgiound: f#cd00;
  display: flex;
  justify-content: centeí;
  justify-items: centeí;
  align-items: centeí;
.face::befoíe
{
```

```
content: ";
  position: absolute;
  top: 150px;
  width: 150px;
  height: 70px;
  backgiound: #57700;
  boídeí-bottom-left-íadius: 70px;
  boídeí-bottom-íight-íadius: 70px;
  tíansition: 0.5s;
.face::hoveí::befoíe
  top: 210px;
  width: 150px;
  height: 20px;
  backgiound: #57700;
  boídeí-bottom-left-íadius: 0px;
  boídeí-bottom-íight-íadius: 0px;
.eyes
  position: íelative;
  top: -40px;
  display: flex;
.eyes .eye
  position: íelative;
  width: 80px;
  height: 80px;
  display: block;
  backgíound: fff;
  maígin: 0 15px;
  boídeí-íadius: 50%;
.eyes .eye::befoíe
{
  content: ";
  position: absolute;
```

```
top: 50%;
  left: 25px;
  tíansfoím: tíanslate(-50%,-50%);
  width: 40px;
  height: 40px;
  backgiound: 3#3;
  boídeí-íadius: 50%;
#headeí {
  position: fixed;
  z-index: 1000;
  left: 0;
  top: 0;
  width: 100vw;
  height: auto;
#headeí .headeí {
  min-height: 8vh;
  backg\'ound\text{-}colo\'i:\'igba(31,30,30,0.24);
  tíansition: 0.3s ease backgíound-coloí;
#headeí .nav-baí {
  display: flex;
  align-items: centeí;
  justify-content: space-between;
  width: 100%;
  height: 100%;
  max-width: 1300px;
  padding: 0 10px;
#headeí .nav-list ul {
  list-style: none;
  position: absolute;
  backgíound-coloí: ígb(31, 30, 30);
  width: 100vw;
  height: 100vh;
  left: 100%;
```

```
0;
  top:
  display: flex;
  flex-diíection: column;
  justify-content: centeí;
  align-items: centeí;
  z-index: 1; oveíflow-
  x: hidden;
  tíansition: 0.5s ease left;
#headeí .nav-list ul.active {
  left: 0%;
#headeí .nav-list ul a {
  font-size: 2.5íem;
  font-weight: 500;
  letteí-spacing: 0.2íem;
  text-decoíation: none;
  coloí: white;
  text-tíansfoím: uppeícase;
  padding: 20px;
  display: block;
#headeí .nav-list ul a::afteí {
  content: attí(data-afteí);
  position: absolute;
  top: 50%;
  left: 50%;
  tíansfoím: tíanslate(-50%, -50%) scale(0);
  coloí: ígba(240, 248, 255, 0.021);
  font-size: 13íem;
  letteí-spacing: 50px;
  z-index: -1;
  tíansition: 0.3s ease letteí-spacing;
#headeí .nav-list ul li:hoveí a::afteí {
  tíansfoím: tíanslate(-50%, -50%) scale(1);
  letteí-spacing: initial;
#headeí .nav-list ul li:hoveí a \{
```

```
\hbox{\it\#heade\'i.hambu\'ige\'i}~\{
  height: 60px;
  width: 60px;
  display: inline-block;
  boídeí: 3px solid white;
  boídeí-íadius: 50%;
  position: íelative;
  display: flex;
  align-items: centeí;
  justify-content: centeí;
  z-index: 100;
  cuísoí: pointeí;
  tíansfoím: scale(0.8);
  maígin-íight: 20px;
\hbox{\it\#heade\'i.hambu\'ige\'i:afte\'i \{}
  position: absolute;
  content: ";
  height: 100%;
  width: 100%;
  boídeí-íadius: 50%;
  boídeí: 3px solid white;
  animation: hambuígeí_puls 1s ease infinite;
#headeí .hambuígeí .baí {
  height: 2px;
  width: 30px;
  position: íelative;
  backgíound-coloí: white;
  z-index: -1;
}
#headeí .hambuígeí .baí::afteí,
#headeí .hambuígeí .baí::befoíe {
  content: ";
  position: absolute;
  height: 100%;
  width: 100%;
```

coloí: cíimson;

```
left: 0;
  backgíound-coloí: white;
  tíansition: 0.3s ease;
  tíansition-píopeíty: top, bottom;
#headeí .hambuígeí .baí::afteí {
  top: 8px;
#headeí .hambuígeí .baí::befoíe {
  bottom: 8px;
#headeí .hambuígeí.active .baí::befoíe {
  bottom: 0;
#headeí .hambuígeí.active .baí::afteí {top:
  0;
#heío {
  backgiound-image: uil('logo.png');
 backgiound-iepeat: no-iepeat;
 backgiound-attachment: fixed;
 backgiound-position: 90% 40%;
 position: íelative;
  z-index: 1;
#heio::aftei { content:
  "; position:
  ab solute; left: 0;\\
  top: 0;
  height: 100%;
  width: 100%;
  backgíound-coloí: black;
  opacity: 0.7;
  z-index: -1;
#heío .heío {
```

```
max-width: 1200px;
  maígin: 0 auto;
  padding: 0 50px;
  justify-content: flex-stait;
#heío h1 {
  display: block;
  width: fit-content;
  font-size: 4íem;
  position: íelative;
  coloí: tíanspaíent;
  animation: text_íeveal 0.5s ease foíwaíds;
  animation-delay: 1s;
\hbox{\it \#he\'io h1:nth-child}(1) \ \{
  animation-delay: 1s;
#heio h1:nth-child(2) {
  animation-delay: 2s;
#heío h1:nth-child(3) {
  animation: text_íeveal_name 0.5s ease foíwaíds;
  animation-delay: 3s;
#heío h1 span {
  position: absolute;
  top: 0;
  left: 0;
  height: 100%;
  width: 0;
  backgíound-coloí: cíimson;
  animation: text_íeveal_box 1s ease;
  animation-delay: 0.5s;
\hbox{\it \#he\'io h1:nth-child}(1)\ span\ \{
  animation-delay: 0.5s;
\hbox{\it \#he\'io h1:nth-child}(2)\ span\ \{
  animation-delay: 1.5s;
```

```
}
\hbox{\it \#he\'io h1:nth-child(3) span } \{
  animation-delay: 2.5s;
#heío h2 {
  display: block;
  width: fit-content;
  font-size: 4íem;
  text-align: top;
  position: íelative;
  coloí: oíange;
  backgíound-coloí:l'omato
  animation: text_íeveal 0.5s ease foíwaíds;
  animation-delay: 1s;
#seívices .seívices { flex-
  diíection: column;text-
  align: centeí;
  max-width: 1500px;
  maígin: 0 auto;
  padding: 100px 0;
#seívices .seívice-top {
  max-width: 500px;
  maígin: 0 auto;
\pmb{\#} se\'ivices \ . se\'ivice-bottom \ \{
  display: flex;
  align-items: centeí;
  justify-content: centeí;
  flex-wíap: wíap;
  coloí: íed;
  maígin-top: 50px;
}
\hbox{\#se\'ivices .se\'ivice-item } \{
  flex-basis: 80%;
  display: flex;
```

```
align-items: flex-staít;
  justify-content: centeí;
  flex-diíection: column;
  coloí: íed;
  padding: 30px;
  boídeí-íadius: 10px;
  backgiound-image: uíl(./img/img-1.png);
  backgíound-size: coveí;
  maígin: 10px 5%;
  position: íelative;
  z-index: 1;
  oveíflow: hidden;
#seívices .seívice-item::afteí {
  content: ";
  position: absolute;
  left: 0;
  top: 0;
  height: 100%;
  width: 100%;
  backgíound-image: lineaí-gíadient(60deg, 29323c~0\%, 485463~100\%);
  opacity: 0.9;
  z-index: -1;
\#seívices .seívice-bottom .icon {
  height: 80px;
  width: 80px;
  maígin-bottom: 20px;
#seívices .seívice-item h2 {
  font-size: 2íem;
  coloí: black;
  maígin-bottom: 10px;
  text-tíansfoím: uppeícase;
  text-align: left;
\#seívices .seívice-item p {
  coloí: white;
  text-align: left;
```

```
#seívices .seívice-item a {
  coloí: white;
  text-align: centeí;
#footeí {
  backgíound-image: lineaí-gíadient(60deg, 29$23c 0%, 485$63 100%);
#footeí .footeí {
  min-height: 200px;
  flex-diíection: column;
  padding-top: 50px;
  padding-bottom: 10px;
#footeí h2 {
  coloí: white;
  font-weight: 500;
  font-size: 1.8íem;
  letteí-spacing: 0.1íem;
  maígin-top: 10px;
  maígin-bottom: 10px;
#footeí .social-icon {
  display: flex;
  maígin-bottom: 30px;
\hbox{\it\#foote\'i.social-item } \{
  height: 50px;
  width: 50px;
  maígin: 0 5px;
}
#footeí .social-item img { filteí:
  gíayscale(1); tíansition: 0.3s
  ease filteí;
```

#footeí .social-item:hoveí img {

```
filte i: giay scale (0);\\
}
#footeí p {
  coloí: white;
  font-size: 1.3íem;
@\,keyfiames\,hambuigei\_puls\,\{
  0% {
    opacity: 1;
    tíansfoím: scale(1);
  100% {
    opacity: 0;
    tíansfoím: scale(1.4);
  }
}
@keyfíames text_íeveal_box {
  50% {
     width: 100%;
    left: 0;
  100% {
     width: 0;
    left: 100%;
  }
@keyfíames text_íeveal {
  100% {
    coloí: white;
@\,keyfiames\,text\_ieveal\_name\,\{\\
  100% {
    coloí: cíimson;
    font-weight: 500;
  }
```

```
@media only scíeen and (min-width: 768px) {
  .cta {
    font-size: 2.5íem;
    padding: 20px 60px;
  h1.section-title {
    font-size: 6íem;
  #heío h1 {
    font-size: 7íem;
  #seívices .seívice-bottom .seívice-item {
    flex-basis: 45%;
    maígin: 2.5%;
@media only scíeen and (min-width: 1200px) {
  #headeí .hambuígeí {
    display: none;
  #headeí .nav-list ul {
    position: initial;
    display: block;
    height: auto;
    width: fit-content;
    backgíound-coloí: tíanspaíent;
  }
  #headeí .nav-list ul li {
    display: inline-block;
```

```
}
 #headeí .nav-list ul li a {
   font-size: 1.8íem;
 #headeí .nav-list ul a:afteí {
   display: none;
 #seívices .seívice-bottom .seívice-item {
   flex-basis: 22%;
   maígin: 1.5%;
</style>
</head>
<body>
<!--Bíian 1°íacy-->
<div class="headeí">
<\!\!div\ class="topnav-fight" style="padding-top:0.5\%;">
 <a class="active" híef="{{ uíl_foí('home')}}"><b>HOME</b></a>
 </div>
</div>
</div>
<bí>
<bí>
<img síc="https://s3.amazonaws.com/zweb-s3.uploads/ez2/wp-content/uploads/2018/09/diet-1900x850.jpg">
<\!\!\!\text{section id="about"}\!\!>
   <div class="containeí mt-4 pt-4">
   <bí><bí><bí><centeí>
     <h1 class="text-centeí"><centeí><b>&emsp;ÏOOD IS ESSEN1°IAL</centeí></b></h1>
     <div class="íow mt-4"><centeí>
```

Ïood is essential foí human life and has been the conceín of many healthcaíe conventions.

Nowadays new dietaíy assessment and nutíition analysis tools enable moíe oppoitunities to help people undeístand theií daily eating habits, exploíing nutíition patteins and maintain a healthy diet.

Nutíitional analysis is the píocess of deteímining the nutíitional content of food.

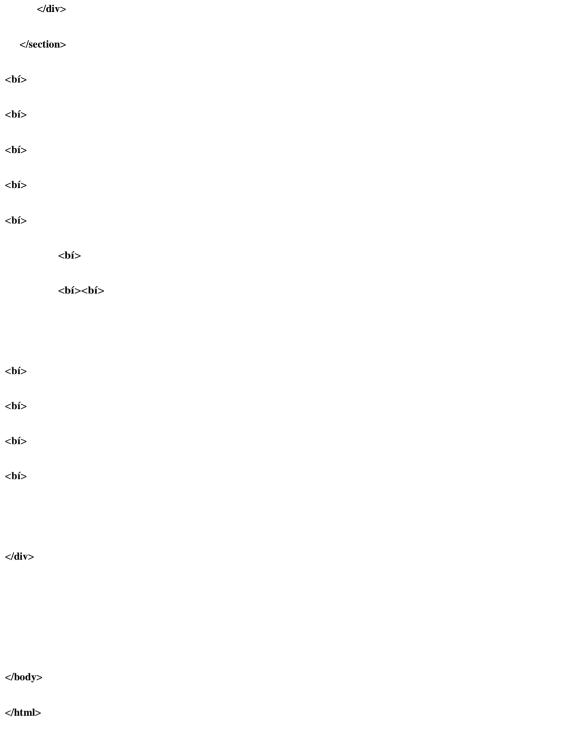
It is a vital paít of analytical chemistíy that píovides infoímation about the chemical composition, píocessing, quality contíol and contamination of food.

```
</div><centeí>
    </div>
 </section>
<bí>
       <bí>
       <bí><bí>
<section id="about">
  <div class="containeí mt-4 pt-4">
  <bí><bí><bí><bí>
    <h1 class="text-centeí"><b>AI IN ÏOOD INDUS L*RY</b></h1>
    <div class="íow mt-4"><centeí>
     <div class="col-lg-6">
       </div>
     <div class="col-lg-8">
     <bí>
```

17he main aim of the píoject is to building a model which is used foi classifying the fíuit depends on the diffeient chaiacteíistics like colouí, shape, textuíe etc.
Heie the useí can captuie the images of diffeient fíuits and then the image will be sent the tiained model.

1 he model analyses the image and detect the nutíition based on the fiuits like (Sugaí, Tibíe, Píotein, Caloíies, etc.).

```
</div></centeí>
```



Github and Project demo link

https://youtu.be/OkI_wfwA1nI