

PROJECT DESIGN PHASE II

SOLUTION REQUIREMENTS

Team ID	PNT2022TMID05143
Project Name	Nutrition Assistant Application

Project Description:

- This project is aimed at developing a desktop-based application named Nutrition Assistant Application for estimates food attributes such as ingredients and nutritional value by classifying the input images of food.
- The Nutrition Assistant Application refers to the system and processes to help the user to analyse the intake of food with the involvement of a Technology system.
- This system can be used to store the details of the user's health, calculating the BMI, Classifying the food image to know the nutritional value, update the status of their health condition based on the information provided, and generate health reports weekly or monthly based. This project is categorizing individual health condition of the user.
- The Nutrition Assistant Application is important to control their daily calorie intake by eating healthier foods, which is the most basic method to avoid obesity.

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.
- The Nutrition Assistant Application helps the users to eat nutritional rich food which yield to lead a healthy life.

Functional Requirements:

S.NO	Requirements	Description
1.	Add Account	This application will allow the user to add their profile.
2.	Add multiple accounts	This application has the option of creating multiple accounts for the users.
3.	Update Account	This application will allow the user to update their profile.
4.	PDF report	This application will generate the PDF report of medical analysis.
5.	Passcode	This application has the option set a passcode to keep their medical report safe.
6.	User Confirmation	Confirmation via Email Confirmation via OTP
7.	Set Remainder	User will able to set remainder to schedule their exercises.
8.	Recommend Exercises	Track how much fat content does user eat in that day.
9.	Graph Analysis	This application will demonstrate health condition by means of nutrition content.
10.	Tracking System	The health can be tracked with this application.

11.	Add health information	This application will allow to delete the unwanted details about their health.
12.	Water consumption	Based on their BMI, we display how much water they have to take per day.
13.	Identifying the high calorie food	The high calorie ingredients will be shown via this application.
14.	Identifying the low calorie food	The low calorie ingredients will be shown via this application.

Non-Functional Requirements:

S.NO	Requirements	Description
1.	Security	<ul style="list-style-type: none"> ➤ This application effectively manages the security of its application systems, protecting information from unauthorized

		access, modification, or destruction in order to provide integrity, confidentiality & availability.
2.	Usability	<ul style="list-style-type: none"> ➤ The web app helps to estimates the amount of calorie present in the food by classifying the input image of the food. ➤ This application helps you set goals, monitor your weight trends & track your intake based on the specific diet plan you select. ➤ It also offers detailed nutrient information for each ingredient in your food menu & a daily analysis to help keep you on track.
3.	Reliability	<ul style="list-style-type: none"> ➤ This application operates without failure while in a specified environment.
4.	Performance	<ul style="list-style-type: none"> ➤ User wants to know how much calories they take in a day, they have to upload the images of the food they eat.

		<ul style="list-style-type: none"> ➤ If users take more amounts of calories in a day, the app suggests some simple exercises to lose the amount of fat added to their body. ➤ BMI based diet plans will be recommended.
5.	Availability	<ul style="list-style-type: none"> ➤ Fitness apps are like to one-stop station where you can monitor all your lifestyle parameters like step count, diet, water intake, blood parameters and workout routine. ➤ This application have a huge positive impact on your health.
6.	Scalability	<ul style="list-style-type: none"> ➤ User's can track their calories by adding food items into the respective fields, so the system can calculate whether they consumed the required number of calories. Observes physical activity.

		➤ This feature will require an additional gadget similar to Mi band that tracks steps, sleeping activity, heart rate etc.
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