PROJECT DESIGN PHASE II
SOLUTION REQUIREMENTS
FUNCTIONAL AND NON FUNTIONAL REQUIREMENTS

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. Without proper diet control, and this is reflective of the risks to people's health. A good Nutrition Assistant Application will alert the users when it is time to avoid. 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.

Scope:

• Maintains good health:

The application can help in guiding them on how to remain healthy and how to take good nutrition. The application will help them without personally going to the doctor. Promote better nutrition in the community by educating about better diet and nutrition.

• Functional limitation:

The user to be specific can't access the web or admin module, whereas the administrator has all the rights to modify and manage the contents such as news, tips, etc

• Improve Usability:

In the part of user's just the internet connection is enough in order to access the news, updates and other contents provided by the admin regarding their health condition.

• Health conscious:

This will provide convenience to persons/users who wants to learn about nutrition and other related health topics by just using the Nutrition Assistant Application

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. Nutrition is more than just obtaining nutrients and calories from food. It's more than just eating the healthy stuff. It's more than just following the most recent fad diet. Nutrition, the

food we eat and the way we eat it, is an integral part of life. Nutrition is an experience. It evokes memories, helps us celebrate good times, and is there for us in times of grief. I believe the purpose of nutrition is to nourish the body and soul. The Nutrition Assistant Application helps the users to eat nutritional rich food which yield to lead a healthy life.

Functional Requirements:

S.no	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 high calorie ingredients will be shown via this application.

Non-functional Requirements:

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

Non-Functional Requirement	Description
Usability	The app helps you set goals, monitor your weight trends, and track your intake based on the specific diet plan you select. It also offers calorie intake in your food and a daily analysis to help keep you on track.
Security	This application effectively manage the security of its application systems, protecting information from unauthorized access, modification, or destruction in order to provide integrity, confidentiality and availability.
Reliability	This application operate without failure while in a specified environment.
Performance	Enter everything you eat and drink during the day, and then let the app approximate the number of calories and nutrients you're consuming. If you're trying to lose or gain weight, you'll get a daily calorie goal to shoot for, too.

Availability	Fitness apps are like a one-stop station where you can monitor all your lifestyle parameters like step count, diet, water intake, blood parameters and workout routine. You don't need to maintain different diaries or books to keep a record of all these things. Fitness apps help improve your lifestyle habits, as they have a huge positive impact on your health
Scalability	Users can track their calories by adding food items into the respective field, so the system can calculate whether they consumed the required daily number of calories.