PROJECT DESIGN PHASE II

SOLUTION REQUIREMENTS

Date	13 October 2022
Team ID	PNT2022TMID02573
Project Name	Nutrition Assistant Application.

Project description:

The goal of this project is to create the desktop-based Nutrition Assistant Application, which classifies input food photographs to estimate food features like ingredients and nutritional value. The term "Nutrition Assistant Application" refers to a technology-based system and set of procedures that assist users in analysing their dietary intake. The user's health information can be stored in this system, which can also calculate BMI, classify food images to determine their nutritional worth, update the user's health condition based on the information provided, and produce health reports on a weekly or monthly basis. This initiative is classifying each user's unique health situation. The most fundamental way to prevent obesity is to limit daily caloric intake by choosing healthier foods, hence the Nutrition Assistant Application is crucial. Without appropriate nutrition regulation, there are threats to people's health. When it is time to avoid, an excellent nutrition assistant app will let the users know. By identifying the supplied food image, this project attempts to create a web application that automatically calculates food qualities like ingredients and nutritional value.

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:

Users still insist on learning how much nutrition their food contains. Users get knowledge about how various diets affect human health. This application's major goal is obviously to show users how to manage their diets while living healthy lives. By snapping a photo of the item, uploading a photo from the gallery, or manually entering the data, the user can obtain the nutritional information.

More than merely consuming calories and nutrients from food is nutrition. It involves more than just consuming nutritious foods. It involves more than just sticking to the newest diet trend. Life would not be possible without nutrition, which includes the food we eat and how we eat it. Food is a sensory experience.

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

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. Mail Notification	This application will allow to send mail notification to user when there are any issues regarding their health
6. Tracking System	The health can be tracked with this application.

7. Graph analysis	This application will demonstrate health condition by means of nutritional content
8. Identifying the high calorie food	The high calorie ingredients will be shown via this application.
9. Identifying the low calorie food	The high calorie ingredients will be shown via this application.
10. Passcode	This application has the option to set a passcode to keep their medical reports safe.
12. Add multiple accounts	This application has the option of creating multiple accounts for the users.
13. Selection of health report duration	This application has the ability to select the duration for displaying the health report as weekly or monthly.
14. Update account	This application will allow the user to update their profile.
15. Add account	This application will allow the user to add their profile.
16. Delete account	This application will allow the user to delete their profile.
17. PDF report	This application will generate the pdf report of medical analysis.
18. Pupation of nutritional trends	This application will allow constant review of nutritional trends and pupation.