

**Project Design Phase-II**  
**Solution Requirements (Functional & Non-functional)**

Date	16 October 2022
Team ID	PNT2022TMID02187
Project Name	Nutrition Assistant Application
Maximum Marks	4 Marks

**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

**Functional Requirements:**

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 Form in the WebApp
FR-2	User Confirmation	Confirmation via EmailConfirmation via OTP
FR-3	Scanning the food	Access camera app or the gallery/files to get the image as input that we will pass to the Nutrition API to get predicted
FR-4	View the nutrition analysis of scanned food	The image after prediction, must display the amount of each nutrient it has.
FR-5	View food history	The user must be able to have a log of all the foods they have scanned on the app for at least the past 30 days
FR-6	Food Searching Option	The user must be able to search for common foods and find out the breakdown of its nutrients
FR-7	Diet analysis report	After the user has used the application consistently for a month, the application must analyse the nutritional value of the foods eaten and let the user know about the nutrients they are taking. It must also give them suggestions to achieve a more balanced diet like, foods that can be included in the diet, etc.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Functional and Friendly UI Better visualization tools to help the user to understand the importance of health and calorie details of consuming food.
NFR-2	Security	We maintain the normal secured protocol for the security systems. To prevent the user information's.
NFR-3	Reliability	It's so reliable to the users because the information we are providing on the web application is totally taken the nutrition consultant and some top references of the nutrition value pages.
NFR-4	Performance	Using cloud database for storage Clarifai's AI-Driven Food Detection Model for accurate food identification and Food API's to give the nutritional value of the identified food.
NFR-5	Availability	Web app Accessible from all devices Its nor has any premium plans so it's available forevery user.
NFR-6	Scalability	It's all about the server system side and we are providing a service for a short scale of users. This application will run how long the server systems were going through.