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

Date	03 October 2022
Team ID	PNT2022TMID03196
Project Name	Nutrition Assistant Application
Maximum Marks	4 Marks

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 Email Confirmation 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**	Must have an interactive and user friendly user interface
NFR-2	**Security**	It must be secured with the proper username and password. Email and OTP verifications should also be done periodically.
NFR-3	**Reliability**	The system must always perform its operations promptly and reliably
NFR-4	**Performance**	User must have a compatible system and the application must deal with system's response time at different load conditions

| NFR-5 | **Availability** | The system must be available at all times with all it's functions working properly |
| NFR-6 | **Scalability** | The system must be well equipped to handle huge workloads and still maintain performance requirements. |