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

Date	03 October 2022
Team ID	PNT2022TMID13870
Project Name	Project - AI-Powered Nutrition Analyzer for Fitness Enthusiasts
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	Interacting with the user through web interface and automated voice to answer the user queries and to guide them in a proper way to maintain their fitness. In the web interface, • There will be separate and special features for the registered user to get personalized and well-defined advice and good practice lectures to maintain their fitness. • All the registered users will be verified with either email or mobile number based on their interest in giving their information, but the verification is a must one. • For non-registered users, the user can visit the website free of cost and can check the nutrient value in the fruits and vegetables, and also can view the common practices for fitness.
FR-2	USER CONFIRMATION	• Confirmation via Email: A transactional email that is sent to your provided mail id of the customer after they complete registration. • Confirmation via OTP: One Time Password, is a temporary, secure PIN-code sent to you via SMS or e-mail that is valid only for one session.
FR-3	USER REGISTRATION	• Creating a group of people, who are willing to be fit in their health and making them organized in a sample place, through which they can collaborate and also, can achieve their goals with others, by encouraging each other.

FR No.		
		• The application gives the ability to ask question about a problem in the fitness groups, through which they can work effectively.
FR-4	USER SATISFYING	• The satisfaction of each user is a must, so UI/UX should be more than enough to engage the user in the platform and the performance of the application should be optimized in order to keep every user for a long time. • On a periodic interval (like once in month), we need to interact one to one with each and every user to solve the queries.
FR-5	USER ENGAGEMENT	• The user should be engaged in the application at least Once a day to get notified about the latest and good practice on fitness which is recommended by the backend model.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	• 60% of the internet users are mobile users, and most of them are only using some common application for communicating based on the features they offer. • So, the application should be easily accessible by users and also it should have the ability to report an issue by the user to solve it as soon as possible.
NFR-2	**Security**	• While logging the application, the data is encrypted and highly secured which can avoid data plagiarism. • Authentication and authorization are to be done properly through the application.
NFR-3	**Reliability**	• Application can offer you to stay focused on your diet plan. It offers to maintain your calories in your desired food. It shows quite accurately

		calories for the user that makes to sustain in healthy lifestyle. • It should also provide the information on nutrition and health which it should prevent from health information on diseases, health risks and prevention guidelines.
NFR-4	**Performance**	• Performance of the application should be high enough to maintain the user in the application and also, to get new users. • Performance can be increased by using optimized code and also reducing the redirects and also can by DSA (Data Structures and Algorithms).
NFR-5	**Availability**	• Even though it is a good application for registered users, it has the ability to offer minimum functionality to the non-registered users and also to increase the audience base. • Easy to access Data. • Avoids Data redundancy and inconsistency. • Fast and Efficient.
NFR-6	**Scalability**	• The application should be as much as scalable, in order to increase the number of users based on their interest.