

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

Date	25 October 2022
Team ID	PNT2022TMID22365
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	<b>USER REGISTRATION</b>	Interacting 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. <ul style="list-style-type: none"><li>● 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.</li></ul>
FR-2	<b>USER MANAGEMENT</b>	The application gives the ability to ask questions about a problem in the fitness groups, through which they can work effectively.
FR-3	<b>USER SATISFYING</b>	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.
FR-4	<b>USER ENGAGEMENT</b>	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	<b>Usability</b>	<ul style="list-style-type: none"><li>• It should be user friendly and comfortable.</li><li>• The results should be self explanatory so that it can be understood by common people.</li><li>• It should be simple and easy to use.</li></ul>
NFR-2	<b>Security</b>	<ul style="list-style-type: none"><li>• Users information must be maintained secretly.</li><li>• AI powered nutrition analyzer for fitness should contain more security in which our data which entered or maintained should be more security.</li></ul>
NFR-3	<b>Reliability</b>	<ul style="list-style-type: none"><li>• Fault less application.</li><li>• A piece of software operating without failure.</li><li>• The website load time is not more than one second for users.</li></ul>
NFR-4	<b>Performance</b>	<ul style="list-style-type: none"><li>• It should provide Reliability, Scalability, Security and Usability.</li><li>• Fast and quick analyzation of food images</li><li>• Occupation less storage.</li></ul>
NFR-5	<b>Availability</b>	<ul style="list-style-type: none"><li>• A user can access the resource at free of cost, they can collect the information which they required.</li><li>• User Friendly.</li></ul>
NFR-6	<b>Scalability</b>	Accessibility should be as much as scalable, in order to increase the number of users based on their interest.