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

Date	29 October 2022
Team ID	PNT2022TMID47872
Project Name	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	Sub Requirement (Story / Sub-Task)
	Requirement (Epic)	
FR - 1	User Registration	Registration through Form
		Registration through Gmail
		Registration through LinkedIn
FR - 2	User Confirmation	Confirmation via Email
		Confirmation via OTP
FR - 3	User Interface	Intuitive and easy to navigate
FR - 4	Business Model	Business Model
FR - 5	Dataset Collection	Daily intake of calories and food physical activities
FR - 6	Training and Testing	Providing necessary information with great
		accuracy

Non-functional Requirements:

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

FR No.	Non-Functional	Description
	Requirement	
NFR-1	Usability	➤ Effective in changing eating
		behavior and diet-related health risk
		factors
		Factors influencing engagement
		with mobile weight loss and weight
		maintenance interventions.
		These factors include
		personalization, simplicity,

NFR-2	Security	entertainment, usability, social support, and the presence of certain features such as self-monitoring, and prompts. However, it can be used for a variety of goals, including self-monitoring, eating healthier, or even gaining weight, which again may reflect a variety of underlying motivations including health status and specific needs and expectations User friendly. Protect and maintain the security of the details of users. Data piracy and cyber threats are prevented. Detects any intrusions and Prevent unwanted advertisements
NFR-3	Reliability	during the progress and process of the consulting The app promotes self-efficacy by allowing users to track their diet progress and work toward simple personal goals. Trustworthy Ensure permission and got qualifications from the articles according to the nutrient app maintenance and treating people.
NFR-4	Performance	 Updates the app periodically to make comfort people. The AI-based model is built by using Image/object recognition and classification using CNN. By using this, The user interacts with the UI and gives the image as input. Then the image will pass to our flask application. Finally, our model classifies the result and showcases it on the UI

NFR-5	Availability Scalability	 Consulting with Dietitian and Nutritionist. Searching websites about their foods. Attending weight loss programs and treatments. Through this system, the user can
NFR-6	Scalability	Through this system, the user can efficiently and effectively understand their: Daily eating habits Explore nutrition patterns Maintain a healthy diet. Best for meal planning Best for finding a diet-friendly restaurant Best for creating custom grocery lists Best for pregnant people's health Best for meeting healthy eating goals Best for those with food intolerances Best for counting calories Best for forming healthy eating habits Best for promoting a healthy body
		image ➤ Best for intuitive eating