PROJECT DESIGN PHASE – II

TEAM ID	PNT2022TMID51044
PROJECT NAME	AI-POWERED NUTRITION ANALYZER FOR FITNESS ENTHUSIASTS

FUNCTIONAL REQUIREMENTS

S.No	Functional Requirements	Sub Requirements
1.	User Registration	-Registering via Gmail -Registering via mobile number -Facebook login for registration
2.	User Confirmation	Email confirmation required Reassurance through OTP
3.	User Management	Assembling a group of individuals who want to improve their health and getting them organised in a model setting will allow them to work together and support one another as they pursue their objectives. With the help of the programme, the fitness groups may successfully work through an issue by having the option to ask questions about it.
4.	User Satisfying	Each user's pleasure is essential, thus the UI/UX should be excellent to hold their interest in the platform, and the application's performance should be maximised to keep them using it for a long time. We must speak with each user individually on a regular basis (like once a month) in order to address their issues.
5.	User Requirements	Simply enter the ingredients and amounts for your recipe. The programme will quickly generate an accurate nutritional analysis of your food in a legible style that customers are accustomed to. With the information previously provided, the system can notify the user if any of the material triggers their allergies.

NON-FUNCTIONAL REQUIREMENTS

S.No	Non-Functional Requirements	Desciption
1.	Usability	Simply enter the ingredients and amounts for your recipe. The programme will quickly generate an accurate nutritional analysis of your food in a legible style that customers are accustomed to. With the information previously provided, the system can notify the user if any of the material triggers their allergies.
2.	Security	The security of an AI-powered nutrition analyzer for fitness should be improved, including the security of any data we submit or keep. With the aid of the login and password, it offers more protection, allowing for more secure access to confidential data. It should be socially and economically accessible and safe to use.
3.	Reliability	It's crucial that the AI-powered nutrition analyzer fitness services is trustworthy. How can one determine if it is trustworthy? Comparing the nutrition-based food with other nutrition-related applications makes it simple to determine whether or not it is dependable. However, it takes too much time, thus to prevent this a trustworthy programme should be created that determines whether or not we can obtain the right answer. Therefore, it is essential that the AI-powered nutrition analyzer for fitness has accurate data and information so that we may learn the truth about it and receive accurate counsel regarding it.
4.	Performance	More consumers should be able to consume at any time and in any location. It ought to offer Usability, Scalability, Reliability, and Security.

		When over-paging websites or applications, it must have the bare minimum of data and must not be more than 20 MB.
		It should respond as quickly and without any time traffic as feasible while the page is being consumed.
		In order to use the connection when travelling or in distant areas, it should be regularly maintained.
		Nutritious cuisine to satisfy their dietary requirements and food choices for a healthy and active lifestyle.
		Foods and drinks that support health and ward off sickness should always be accessible, affordable, and readily available.
5.	Availability	Easy access to Data; prevents Data duplication and inaccuracy. Fast, effective, and user-friendly.
6.	Scalability	The architecture of the AI-powered Nutrition Analyzer for fitness outlines the user's daily food consumption in detail and aids in the maintenance of a balanced diet.

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