

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

Date	03 October 2022
Team ID	PNT2022TMID48550
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	<ul style="list-style-type: none"> Registration through Gmail
FR-2	User Confirmation	<ul style="list-style-type: none"> Confirmation via Email
FR-3	Preprocessing Step	<ul style="list-style-type: none"> A user sets a goal, which is their current weight and the target in the app to scan food for calories or food and nutrition apps. The user then inputs information about their activities and the food they eat.
FR-4	Feature extraction	<ul style="list-style-type: none"> Effective in changing eating behavior and diet related health risk factors. To guide its users towards a healthy diet and assist them to achieve their health goals.
FR-5	Selection step	<ul style="list-style-type: none"> Understand how to use your daily values, increase certain nutrients, know your daily values.
FR-6	Classification step and verification	<ul style="list-style-type: none"> The nutrition care process is a systematic method that dietetics and nutrition professionals use to provide nutrition care. It is comprised of four steps: nutrition assessment , reassessment, nutrition diagnosis, nutrition intervention and nutrition monitoring and evaluation.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	It doesn't specify parts of the system functionality is to be perceived by the user, for instance how easy it must be to learn and how efficient it must be for carrying out user tasks.
NFR-2	Security	A goal set out for an application at its inception. Every application fits a need or a requirement. For example, an application might need to allow user to perform actions without calling customer service.

NFR-3	Reliability	The probability and percentage of the software performing without failure for a specific number of uses or amount of time. This feature defines the amount of time the system is running, the time it takes to repair a fault, and the time between lapses.
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NFR-4	Performance	Emails should be sent with a latency of no greater than 12 hours. Each request should be processed within 10 seconds. The site should load in 3 seconds when the number of simultaneous users are > 10000
NFR-5	Availability	Describes how likely the system is accessible to user at a given point in time. While it can be expressed as an expected percentage of successful requests, you may also define it as a percentage of time the system is accessible for operation during some time period.
NFR-6	Scalability	The ability of the application to handle an increase in workload without performance degradation , or its ability to enlarge.