

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

Date	03 October 2022
Team ID	PNT2022TMID35778
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	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Login	Enter the login ID Enter the associated password given while registering
FR-4	Dataset	Images of different types of fruit are uploaded as part of the dataset
FR-5	Image Input	Interpreting the image input provided by the user
FR-6	Process	Testing the image by various convolution layers
FR-7	Result	Displays the nutrient content of a particular fruit

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The majority of internet users are on mobile devices, and most of them use some common application to communicate based on its features. It is important that the application is easily accessible by users, and also that the user can report any issues to be resolved as soon as possible.
NFR-2	Security	The data is encrypted and highly secured during the logging process, preventing data plagiarism. The application must authenticate and authorize correctly.
NFR-3	Reliability	Maintaining calories in your desired food is offered by this application, helping you stay on track with your diet plan. Calories are displayed fairly accurately for the user, which makes it easier for them to maintain a healthy lifestyle

NFR-4	Performance	In order to maintain a user and attract new users, the performance of the application must be high enough. A good way to improve performance is by optimizing code, reducing redirects, and also by using Data Structures and Algorithms (DSA).
NFR-5	Availability	In addition to its excellent functionality for registered users, the application also has the capability of providing minimum functionality to non-registered users and to reach a wider audience
NFR-6	Scalability	A lot of consideration should be put into making the application as scalable as possible so that it can attract more users as their interest increases.