

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

Date	14 October 2022
Team ID	PNT2022TMID21978
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 Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Data collection	Collecting datasets from various resources.
FR-2	Data pre-processing	Structuring the data according to the needs of testing and analysing.
FR-3	Train data	Feeding the inputs in the data to check whether the given feeds are satisfiable or not.
FR-4	Test data	With the help of modified data, the testing process will be proceeded.
FR-5	Evaluation	Easy to evaluate the testified model on the basis of types of nutrition and its description.
Fr-6	Prediction	Displays the image, name, type and its description of nutritional product to get us notified.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	To help better understand and predict the pictorial representation of what type of nutritional product it is.
NFR-2	Security	With the help of OTP, we can secure the application for individual number.
NFR-3	Reliability	It will be easy to classify the nutrition products with the help of the application.
NFR-4	Performance	The application will analyse the image and detect the nutrition based on the fruits or any other nutrition products.
NFR-5	Availability	New dietary assessment and nutrition analysis tools enable more opportunities to understand their needs.
NFR-6	Scalability	This application will be in large scale of analysing the picture with the image taken from a nutritional eatable.