

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

Date	October,4
Team ID	PNT2022TMID42999
Project Name	AI-powered Nutrition for Fitness Enthusiasts
Maximum mark	4 Marks

Functional Requirements:

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	Image processing	Take a picture (fruits) and upload the image from nutrition analyzer app.
FR-4	Train model	Train data to analyses the image and detect the nutrition based on the fruits .
FR-5	Data preprocessing	The data split into two types. 1.train data 2.test data
FR-6	Adding dataset	Fruits dataset
FR-7	Evaluating	Detect and evaluating the nutrition based on the fruits like (Sugar, Fibre, Protein, Calories, etc.).
FR-8	output	predicted data to send or show in user output

Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	To detect the nutritional value of user's daily meal. Helps to maintain the fitness health of the user by informing the nutritional information of their meal.
NFR-2	Security	User information and their food nutritional information are secured.
NFR-3	Reliability	The information provided are reliable.
NFR-4	Performance	Nutritional values are defined once the food is detected. Does a great job in providing the nutritional value of the food.
NFR-5	Availability	The information can be detected again and again for the same food. Available and easy access of datasets provided.
NFR-6	Scalability	To increase the growth of predicting the nutritional values and guiding a good fitness health of the user.