

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

Date	05 October 2022
Team ID	PNT2022TMID24576
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	User Registration	Registration by Email on the website
FR-2	Uploading Image	Uploading a real time captured image to feed the modal
FR-3	Image Processing	Modifying the image to fit the modal
FR-4	Image classification	Classifying the image as a particular fruit or vegetable
FR-5	Nutritional analysis	Output the nutritional values in the classified image label

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The application is available as Web application with user friendly and responsive interface
NFR-2	Security	User Data are secured by simple but effective way of authentication
NFR-3	Reliability	The application works on a well trained AI modal with reasonable amount of accuracy
NFR-4	Performance	The modal is deployed to IBM watson cloud which decreases the computation time
NFR-5	Availability	The application can be accessed by any kind of device with a browser
NFR-6	Scalability	Application can be extended to provide more personalized recommendation on their food habits and provide ease of use via a mobile app