

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

Date	03 October 2022
Team ID	PNT2022TMID36413
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 requirements	<ul style="list-style-type: none">● User should have the image or capture the fruit photo to upload.
FR-2	Image processing	<ul style="list-style-type: none">● Process the image uploaded
FR-3	Image prediction	<ul style="list-style-type: none">● Predicts the fruits (Name of the fruit)
FR-4	Nutrition description	<ul style="list-style-type: none">● Contains and provides the nutrition value in the predicted fruit(image)

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	<i>Usability</i>	<ul style="list-style-type: none">● To define a patient's nutritional status, to clinically relevant malnutrition and to monitor changes in nutritional status.● Nutritional Analysis ensures that the food has optimal requirement of vitamins and minerals● It should be simple and easy to use.● No training is required to access the Nutrition Analyzer.
NFR-2	<i>Security</i>	<ul style="list-style-type: none">● Security of application is moderate and depends on the user's system security

NFR-3	<i>Reliability</i>	<ul style="list-style-type: none"> ● It provide almost accurate result for the input image. ● AI algorithms may help better understand and predict the complex and non-linear interactions between nutrition-related.
NFR-4	<i>Performance</i>	<ul style="list-style-type: none"> ● It's is easy to use and number of user will user to consume at any time and at any place ● It more Reliable, flexible and security for user data. ● The connection should be properly maintained so that it can use while travelling or in remote places.
NFR-5	<i>Availability</i>	<ul style="list-style-type: none"> ● User can easily operate the data ● It's provide all time service for user friendly.
NFR-6	Scalability	<ul style="list-style-type: none"> ● Increase the prediction of nutritional details in the food