

Project Design Phase-II

Solution Requirments (Functional & Non-Functional)

Date	03 October 2022
Team Id	PNT2022TMID39847
Project Name	AI-Powered Nutrition Analyzer For Fitness Enthusiasts
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

Functional Requirement (Epic) Sub Requirement (Story / Sub-Task)

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub Task)
FR No.1	User registration	Registration through email and through forms
FR No.2	User confirmation	Through OTP, pop up message
FR No.3	Information about the application	Using analysis of fruit image
FR No.4	Materials and method	Open source, python, IBM cloud
FR No.5	Architecture	Higher level graphical user interface which manages image processing
FR No.6	Algorithm	CNN
FR NO.7	Feature selection	Image processing

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Tech support system
NFR-2	Security	recognition system to provide a high-security and smart node in the application layer of Internet
NFR-3	Reliability	Nutrition Analyzer control approach
NFR-4	Performance	Recognizing image of the fruit correctly and provide information
NFR-5	Availability	The Applications is available for 24/7

NFR-6	Scalability	Access for everyone with the application
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