

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

Date	17 October 2022
Team ID	PNT2022TMID00181
Project Name	Project – Nutrition Assistant Application
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 through Form Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Food Detection	Scanning by Clarifai's AI-Driven Food Detection Model
FR-4	Nutrients Display	Display nutrients through IBM Cloud
FR-5	User BMI Calculation	Calculating BMI accurately

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Python as a programming language Flask as a Python framework IBM DB2 as a database support IBM Cloud as a cloud storage Docker as a software platform
NFR-2	Security	Securely retain user identifiers such as user name and user details.
NFR-3	Reliability	Reliable as it includes accurate BMI computation and effective food display.
NFR-4	Performance	Provide a relevant food analysis and the best diet plan, leading the user to follow a healthy diet
NFR-5	Availability	It is readily available because the user only needs a smartphone with a good network connection.
NFR-6	Scalability	The database can be updated accordingly. Input data can be changed at anytime by authorized users.