

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

Date	03 October 2022
Team ID	PNT2022TMID13235
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	<b>Usability</b>	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	<b>Security</b>	Securely retain user identifiers such as user name and user details.
NFR-3	<b>Reliability</b>	Reliable since it calculates BMI correctly and displays diet clearly.
NFR-4	<b>Performance</b>	Give the user the best diet plan and relevant food analysis to encourage them to eat healthily.
NFR-5	<b>Availability</b>	Because all a user needs is a smartphone with a strong network connection, it is easily accessible.
NFR-6	<b>Scalability</b>	Accordingly, the database can be updated. Authorized users may at any time alter the input data.