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

Date	15 October 2022
Team ID	PNT2022TMID42340
Project Name	Project - Nutrition Assistant Application
Maximum Marks	4 Marks

Non-Functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Usage of Python as a programming language Flask as a Python framework Docker as a software platform IBM cloud as a cloud storage IBM DB2 as a database support
NFR-2	**Security**	Maintain user credentials such as username and user details in a secure manner.
NFR-3	**Reliability**	Reliable as it includes accurate BMI calculation and efficient nutrient display.
NFR-4	**Performance**	Provision of relevant scanning of food and best diet plan which makes the user follow a healthy diet.

			Easily accessible as the user requires only a smartphone with a good network connection.
NFR-5	**Availability**		

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
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 Body Mass Index accurately

Non-functional Requirements:

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

NFR-6	**Scalability**	The database base can be updated accordingly. The input details can be changed by the authorized user anytime.