**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

|  |  |
| --- | --- |
| Date | 03 October 2022 |
| Team ID | PNT2022TMID27311 |
| 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 |
| 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.

|  |  |  |
| --- | --- | --- |
| **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. |
| NFR-5 | **Availability** | Easily accessible as the user requires only a smart-phone with a good network connection. |
| NFR-6 | **Scalability** | The database base can be updated accordingly. The input details can be changed by the authorized user anytime. |