**Project Design Phase-II**

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

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| Date | 29 October 2022 |
| Team ID | PNT2022TMID22082 |
| Project Name | Nutrition Assistant Application |
| Maximum Marks | 4 Marks |

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | It must have a user interface that is both interactive and inviting. |
| NFR-2 | **Security** | Use the right username and password to secure it. Periodic email and OTP verifications should also be carried out. |
| NFR-3 | **Reliability** | The system must consistently operate promptly and consistently deliver results. |
| NFR-4 | **Performance** | The program must take into account the system's response time under various load levels, and the user must have a compatible system. |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration via the WebApp's Form |
| FR-2 | User Confirmation | Email confirmation required Reassurance via OTP |
| FR-3 | Scanning the food | To obtain the image as input that we will provide to the Nutrition API in order to obtain anticipated nutrition information, access the camera app or the gallery of files. |
| FR-4 | View the nutrition analysis of scanned food | The amount of each nutrient present in the image must be visible after prediction. |
| FR-5 | View food history | The app's user must be able to access a log of all the foods they've scanned over the course of the last 30 days at the very least. |
| FR-6 | Food Searching Option | The user must be able to look up typical foods and learn how many nutrients they include. |
| FR-7 | Diet analysis report | The program must assess the nutritional content of the foods consumed and inform the user of the nutrients they are consuming after the user has used it consistently for a month. Additionally, it must offer advice on how to attain a better-balanced balanced diet, such as ideas on what foods to include. |

**Non-functional Requirements:**

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

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| NFR-5 | Availability | The system must be available at all times and all of its functions must work as planned. |
| NFR-6 | Scalability | The system needs to be able to handle large workloads while still performing to standards. |