**Project Design Phase-II**

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

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID12518 |
| Project Name | Project - Nutrition Assistant Application |
| Maximum Marks | 4 Marks |

**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 through Form  Registration through Gmail  Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 | Product Management | Easily track the nutritional content intake per person.  From the photos that the users upload, we will be able to quickly calculate the nutritional content intake value and produce the accurate results.  Track intake of junk foods and calculate calories.  As per the previous intakes and their BMI values, food will be suggested accordingly. |
| FR-4 | Quality of the uploaded photo | The photo of the food uploaded by the user should be of acceptable quality.  The size of the file should be compactible.  The image should not contain food that is overlapped. |
| FR-5 | Calculation of BMI score | The BMI of the user needs to be calculated frequently.  It should be calculated once the user creates an account in our app.  Once the user starts following our meal plan, he/she should be frequently asked to enter their height and weight to calculate their BMI value and to make sure if this meal plan is fitting fine for them. |
| FR-6 | Ensuring Security | User data collected must be kept as safe as possible. The data given by the user must not be misused. |

**Non-functional Requirements:**

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

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | The UI should be user friendly.  Their will be an option which ensures people knowing any language would be able to access and people whose have impairments would be able to access.  People will be able to access this app from anywhere and anyplace in the world (there is no system or browser compatible issues) |
| NFR-2 | **Security** | Only the authorized users would be able to use the system.  If there is any security threat, the administrative team will be notified immediately and corrective actions would be taken. |
| NFR-3 | **Reliability** | Even if there is hardware or software failure, the system should not reveal that to the users and should be able to perform the given tasks.  The recovery of the system during those times should be fast and time taken should be as low as possible. |
| NFR-4 | **Performance** | Performance of the system should be high and reliable.  There will be high end systems supporting this capability. |
| NFR-5 | **Availability** | This system should be available 24X7 with high performance value.  Maintenance of the system should be notified in prior to the users. |
| NFR-6 | **Scalability** | The system should support the scalability of users (whether increase or decrease in number or users) |