## Project Design Phase-II

## Solution Requirements (Functional & Non-functional)

| Date | 25 October 2022 |
|------|------|
| Team ID | PNT2022TMID36595 |
| Project Name | AI-powered Nutrition Analyzer for Fitness Enthusiasts |
| 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<br>Registration through Gmail<br>Registration through LinkedIN. |
| FR-2 | User Confirmation | Confirmation via Email<br>Confirmation via OTP |
| FR-3 | User Login | Give the login ID<br>Give the password that is created during registration |
| FR-4 | Dataset | The dataset that is being uploaded includes various fruit photos. |
| FR-5 | Image Input | examining the user-provided image input |
| FR-6 | Process | using different convolution layers to test the image |
| FR-7 | Result | The specific fruit's nutrient content is shown. |

**Non-functional Requirements:**

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

| FR No. | Non-Functional Requirement | Description |
|--------|-----------------------------|-------------|
| NFR-1 | **Usability** | The means by which the system will be usable by users who require special or unconventional accessibility requirements |
| NFR-2 | **Security** | Describe the extent to which data must be safeguarded and kept private. |
| NFR-3 | **Capacity** | ability to maintain functionality as circumstances |

|        |                 | change |
|--------|-----------------|--------|
|        |                 | based on the input we provide. |
| NFR-4  | **Performance** | Rapid response is accomplished. |
| NFR-5  | **Availability** | The minimal amount of time allocated to online. The service should be accessible during these times. |
| NFR-6  | **Scalability** | The program's capacity to deal with a rise in without performance reduction or the capacity to grow quickly. |