Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Date | 15 October 2022 |
| Team ID | PNT2022TMID08799 |
| Project Name | AI-powered Nutrition Analyzer for Fitness Enthusiasts |
| 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 | User Login | Give the login ID  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.

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| **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. |