Project Design Phase-II

Solution Requirements (Functional & Non-functional)

|  |  |
| --- | --- |
| Date | 15 October 2022 |
| Team ID | PNT2022TMID51465 |
| Project Name | AI-powered Nutrition Analyzer for Fitness Enthusiasts |
| Maximum 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  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 | Uploading the dataset consists of variety of fruit images |
| FR-5 | Image Input | Analysing the image input provided by the user |
| FR-6 | Process | Testing the image by various convolution layers |
| FR-7 | Result | The nutrient content in the particular fruit is displayed |

# Non-functional Requirements:

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

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | The ways in which the system will accessible to users with particular or non standard accessibility  requirements |
| NFR-2 | **Security** | Extend to which data needs to be protected and  kept confidential. |
| NFR-3 | **Capacity** | Ability to continue to function well as it changes in  according to input that we give. |
| NFR-4 | **Performance** | Fast response is achieved. |
| NFR-5 | **Availability** | The minimum proportion of time given in online  service hours that the service should be available. |
| NFR-6 | **Scalability** | Ability of the application to handle an increase in  workload without performance degradation, or its ability to quickly enlarge. |