

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

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| Date | 13 October 2022 |
| Team ID | PNT2022TMID50512 |
| Project Name | Project - 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 Registration through Gmail Registration through LinkedIn |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | Capturing image | Capture the image of the leaf and check the parameter Of the captured image. |
| FR-4 | Image processing | Upload the image for the prediction of the disease in the leaf. |
| FR-5 | Leaf identification | Identify the leaf and predict the disease in leaf. |
| FR-6 | Image description | Suggesting the best fertilizer for the disease. |

Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|---|
| NFR-1 | Usability | Datasets of all the leaf is used to detection the disease that present in the leaf. |
| NFR-2 | Security | The information belongs to the user and leaf are secured highly. |
| NFR-3 | Reliability | The leaf quality is important for the predicting the disease in leaf. |
| NFR-4 | Performance | The performance is based on the quality of the leaf used for disease prediction. |
| NFR -5 | Availability | It is available for all user to predict the disease in the plant. |
| NFR-6 | Scalability | Increasing the prediction of the disease in the leaf. |