**Project Design Phase-II**

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

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID42619 |
| Project Name | Fertilizer recommendation system for disease prediction |
| 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 web portal  Registration through Gmail |
| 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 and process the image using the trained data |
| 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.

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| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | Usability | Datasets of all the leaf is used to detecting 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. |