**Project Design Phase-II**

**Functional Requirement (functional and non functional)**

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| DATE | 9 October 2022 |
| TEAM ID | PNT2022TMID50687 |
| PROJECT NAME | Fertilizer Recommendation System for Disease Prediction |
| MAXIMUM MARKS | 4 Marks |

**Functional Requirement**:

Following are the functional requirements of the proposed solution

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| --- | --- | --- |
| **Fr. no** | **Functional requirement** | **Sub requirement(story /subtask)** |
| Fr-1 | User registration | Registration through from  Registration through Gmail |
| Fr-2 | User confirmation | Confirmation via OTP  Confirmation via Email |
| 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 Requirement**:

Following are the non-functional requirement of the proposed solution

|  |  |  |
| --- | --- | --- |
| **NFR. 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 |