

Project Design Phase – II

Solution requirements (functional and non-functional)

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|---------------|---|
| Date | 17 October 2022 |
| Team id | PNT2022TMID03412 |
| Project name | Fertilizer recommendation system for disease prediction |
| Maximum marks | 4 marks |

Functional requirement :

Following are the functional requirements of the proposed solution .

| Fr.no | Functional requirement | Sub requirement (story/subtask) |
|-------|------------------------|--|
| Fr-1 | User registration | Registration through Google form 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 |