# Project Design Phase – II

# Solution requirements (functional and non-functional)

| Date | 16 NOVEMBER 2022 |
|---|---|
| Team id | PNT2022TMID36798 |
| 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 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 theleaf. |
| Fr-5 | Leaf identification | Identify the leaf and predict thedisease in leaf. |
| Fr-6 | Image description | Suggesting the best fertilizer forthe 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 diseasethat present in the leaf. |
| Nfr-2 | Security | The information belongs to the user and leaf are securedhighly. |

| 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 topredict the disease in the plant |