

## PROJECT DESIGN PHASE \_ II

### SOLUTION REQUIREMENTS

|              |   |
|--------------|---|
| Date         | 17 November 2022                                      |
| Project Id   | PNT2022TMID19703                                      |
| Project Name | AI-powered Nutrition Analyzer for Fitness Enthusiasts |

#### Solution Requirements:

##### 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<br>Registration through Gmail                          |
| Fr-2  | User confirmation      | Confirmation via OTP<br>Confirmation via Email                                   |
| Fr-3  | Capturing image        | Capture the image of the leaf<br>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                                |