

**Project Design Phase-II**  
**Solution Requirements (Functional & Non-functional)**

Date	03 October 2022
Team ID	PNT2022TMID19464
Project Name	Project – Fertilizer Recommendation System For Disease Prediction
Maximum Marks	4 Marks

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

<b>FR No.</b>	<b>Functional Requirement (Epic)</b>	<b>Sub Requirement (Story / Sub-Task)</b>
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	Image Capture	Capture image of leaf Check the leaf is captured under given parameters
FR-3	Image Processing	Upload the leaf image Start detection
FR-4	Leaf Prediction	Identify the parameter to be considered for the identification of diseases.
FR-5	Image Description	Show the prescribed fertilizer to be used for un healthy leaf
FR-6	Providing Dataset	Training datasets Testing datasets
FR-7	Adding Datasets	Fruit dataset and vegetable dataset
FR-8	Updated Native Language options	Languages can be changed according to the user wish

### **Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

<b>FR No.</b>	<b>Non-Functional Requirement</b>	<b>Description</b>
NFR-1	<b>Usability</b>	Leaf datasets can be used for detection of all kind of leaf's Datasets can be reusable Data sets can be prepared according to the leaf
NFR-2	<b>Security</b>	User information and leaf data are secured The algorithms used are more secure
NFR-3	<b>Reliability</b>	The leaf quality is more The datasets and image capturing performs consistently well
NFR-4	<b>Performance</b>	Leaf problem defines once the leaf is detected Performs well according to the quality of leaf provides certain cure to it.
NFR-5	<b>Availability</b>	Quality of leaf will be used again for detection Available and easy access of datasets provided
NFR-6	<b>Scalability</b>	Increase in growth of predicting the results and defining a leaf