## **Project Design Phase-II**

## **Solution Requirements (Functional & Non-functional)**

Date	16 November 2022
Team ID	PNT2022TMID22643
Project Name	Fertilizers Recommendation System Prediction for Disease

## **Functional Requirements:**

Following are the functional requirements of the proposed solution.

FR No.	<b>Functional Requirement</b>	Sub Requirement
FR-1	User Registration	Registration through form Registration through Gmail Registration through LinkedIn
FR-2	Image Capture	Take image of a leaf Check the leaf is captured undergiven parameters
FR-3	Image Processing	Upload the leaf image Click the predict button
FR-4	Updated Native Language	Languages can be changed according to the user, which heis more understandable with.  (Ex: English, Hindi, Tamil)
FR-5	Leaf Prediction	Add the pesticides and fertilizers to be used for an unhealthy leaf
FR-6	Image Description	Show the prescribed fertilizer and description of the diseasefor curing a unhealthy leaf
FR-7	Providing Datasets	Training datasets Testing datasets
FR-8	Adding Datasets	Fruit datasets for fruits Vegetable datasets for vegetables
FR-9	E-mail Notification	Farmers will be received a Email notification about the leafand its history

## Non-functional Requirements:

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

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