## **Project Design Phase-II**

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

Date	07 November 2022
Team ID	PNT2022TMID22638
Project Name	Fertilizers Recommendation System
	for Disease Prediction

## **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 Nat	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
5D 0	A.I.I. D	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 according to the leaf
NFR-2	Security	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