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

Date	03 October 2022
Team ID	PNT2022TMID43438
Project Name	Project – Fertilizer Recommendation System For Disease Prediction
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
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.

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	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	**Security**	User information and leaf data are secured The algorithms used are more secure
NFR-3	**Reliability**	The leaf quality is more The datasets and image capturing performs consistently well
NFR-4	**Performance**	Leaf problem defines once the leaf is detected Performs well according to the quality 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