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

Date	03 October 2022
Team ID	PNT2022TMID41636
Project Name	Fertilizers 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	Registering through Gmail
FR-2	User confirmation	Confirmation is done through Email
FR-2	Image Capture	Take a picture of a leaf and verify that the leaf was captured using the specified criteria.
FR-3	Image Processing	Upload the image of the leaf for detecting the diseases that is present in the leaf.
FR-4	Leaf Prediction	Determine the parameter that should be taken into account for disease identification for identifying the leaf and predicting the disease in it.
FR-5	Image Description	Show the prescribed fertilizer that has to be used for the diseased leaf
FR-6	Providing Dataset	Training the datasets Testing the datasets
FR-7	Adding Datasets	Datasets for fruits and vegetables are added.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Data sets can be prepared according to the leaf .Leaf datasets can be used for detection of all kind of leaf's Datasets can be reusable to detect diseases present in leaf.
NFR-2	**Security**	User information and leaf data are secured The employed algorithms are more secure.
NFR-3	**Reliability**	The leaf quality is more for predicting the disease in leaf. The datasets and image capture consistently performs well.
NFR-4	**Performance**	The leaf problem is specified when the leaf is detected. Performs well according to the quality of the leaf and provides a specific cure to it by showing recommendation of fertilizer.
NFR-5	**Availability**	The quality of the leaf will be used again for detection. Datasets will be made available and easily accessible. It is available to all users to predict plant disease.
NFR-6	**Scalability**	Increasing the accuracy of disease prediction in the leaf.