

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

Date	25 October 2022
Team ID	PNT2022TMID12393
Project Name	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
FR-2	User Confirmation	Confirmation via Email Confirmation via TFA
FR-3	Image Capturing	Capture the leaves image and check for affected areas
FR-4	Image Processing	Process the image to predict the disease using various Algorithms.
FR-5	Disease Prediction	Identify the diseases based on the captured images.
FR-6	Suggest fertilizer for the plants	Suggest fertilizer based on the predicted disease to increase the Productivity

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Datasets of all the leaf is used to detecting the disease that present in the leaf.
NFR-2	Security	The information belongs to the user and leaf are secured highly.
NFR-3	Reliability	The leaf quality is important for the predicting the disease in leaf.
NFR-4	Performance	The performance is based on the quality of the leaf used for disease prediction
NFR-5	Availability	It is available for all user to predict the disease in the plant
NFR-6	Scalability	Increasing the prediction of the disease in the leaf