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

Date	03 October 2022
Team ID	PNT2022TMID44619
Project Name	Project – 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	Registration through Form Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Capturing image	Capture the image of the leaf and check the parameter of the captured image.
FR-4	Image processing	Upload the image for the prediction of the disease in the Leaf.
FR-5	identification	The system will predict the issue from User details through train set and test data. Identify the leaf and predict the disease in leaf.
FR-6	Suggestion and Prevention	The system will suggest the solution to the issue through image or description.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The system is highly user friendly as the User can provide details and get suggestions from wherever they are. User can easily provide the details of their crop issue and get prevention methods and detects if the crop is affected by diseases.
NFR-2	**Security**	These securities are mainly related to the cloud services, they have strict security across the network. The information belongs to the user and leaf are secured highly.
NFR-3	**Reliability**	The use of artificial intelligence gives appropriate result. The CNN algorithm model has 95% accuracy. The reliability is more stable in all environment.

NFR-4	**Performance**	Response Time and Net Processing Time is Fast. It is to support maximum number of users in a network.
NFR-5	**Availability**	There is a high availability for user's access. It is available for all user to predict the disease in the plant
NFR-6	**Scalability**	The website is scalable. Increasing the prediction of the disease in the leaf. Automatically adjust to fit multiple screen sizes.