## PROJECT DESIGN PHASE - 1 SOLUTION REQUIREMENTS (FUNCTIONAL & NON FUNCTIONAL)

DATE	8 October 2022
TEAM ID	PNT2022TMID04804
PROJECT NAME	Fertilizer Recommendation Disease Prediction System For Plant
MAXIMUM MARK	4 Marks

## **Functional Requirement:**

Following are the functional requirements of the proposed solution

Fr.no	Functional requirement	Sub requirement
Fr 1	User registration	Registration done through form and Gmail
Fr 2	User confirmation	Confirmation via OTP Confirmation via Email
Fr 3	Uploading Dataset (Leaf)	Images of the leaves are to be uploaded
Fr 4	Leaf identification	Identify the leaf and predict the disease in leaf.
Fr 5	Image description	Suggesting the best fertilizer for the disease.
Fr 6	Downloading Solution	The Solution in pdf format which contains the recommendations of fertilizers and the possible diseases.

Non-Functional Requirement:

Following are the non-functional requirement of the proposed solution

NFr.no	Non-functional requirement	Description
Nfr1	Usability	The system allows the user to perform the tasks easily and efficiently and effectively
Nfr2	Security	The information that belongs to the User and leaf are protected against malware attacks or unauthorized access
Nfr3	Reliability	The website does not recover from failure quickly, it takes time as the application is running in single server
Nfr4	Performance	Response Time and Net Processing Time is Fast
Nfr5	Availability	The system will be available up to 95% of the time
Nfr6	Scalability	The system is capable of being expanded or upgraded