

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

Date	03 October 2022
Team ID	PNT2022TMID13660
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
FR-2	Update native language	The preferred language of the user will be change by the user.
FR-2	Image Capture	Take the image of leaf and check the leaf is captured under given parameters.
FR-3	Image processing	Upload the leaf image by clicking the ok button.
FR-4	Leaf prediction	The kind of leaf and its disease will be predicted and fertilizer will be recommended
FR-5	Recommendation	Both organic and inorganic fertilizer under proper guidance will be recommended to the user.
FR-6	Email notification	The kind of disease and its further prevention will be sent to the user through email.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Datasets based on leaves are used for all kinds of leaves. Datasets can be reusable.
NFR-2	Security	User information and leaf data are secure. Algorithms used are more secure.
NFR-3	Reliability	The image capturing performs consistently well with high quality.
NFR-4	Performance	Performance of the system is considerably better and the predictions are good with high accuracy.
NFR-5	Availability	It can work in different platforms and easy access of the system will be provided.
NFR-6	Scalability	Increase in growth of predicting the results.