

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

Date	16 October 2022
Team ID	PNT2022TMID33287
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 Mobile number Registration through Email
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Materials and Methods	A camera or similar devices are used to capture different images of the affected leaves and then it helps to identify the disease of the leaves.
FR-4	Crop Details	User can provide details like images of the leaves, and also provide the details of the affected plant like its name, variety and so on
FR-5	Prediction	The system will predict the disease by the symptoms identified on the uploaded image of the affected leaves and trained data.
FR-6	Fertilizer Recommendation	The system will recommend suitable fertilizer based on the type of disease identified.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The system will be user-friendly and allows the user to perform the task easily and efficiently
NFR-2	Security	Information gathered from the user is highly secured.
NFR-3	Reliability	The prediction will be accurate and the recommended fertilizer will cure the plant disease
NFR-4	Performance	The performance is based on the quality of the image for disease prediction.
NFR-5	Availability	It is available to predict the disease in plants/leaves for all user.
NFR-6	Scalability	Increase the precise of disease prediction in leaf.