

Project Design Phase – II

Solution Requirements (Functional and Non-Functional)

Date	12 October 2022
Team ID	PNT2022TMID15472
Project Name	Fertilizer Recommendation System For Disease Prediction
Maximum Marks	4 Marks

Functional Requirement :

Following are the functional requirements of the proposed solution.

Fr.no	Functional Requirement	Sub requirement (story/subtask)
Fr-1	User Registration	Registration through form Registration through Gmail
Fr-2	User Confirmation	Confirmation via OTP Confirmation via Email
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	Leaf Identification	Identify the leaf and predict the disease in the leaf.
Fr-6	Image Description	Suggesting the best fertilizer for the disease.

Non-Functional Requirement:

Following are the non-functional requirement of the proposed solution

NFr.no	Non-Functional Requirement	Description
Nfr-1	Usability	Datasets of all the leaves are used to detect the disease that is present in the leaf.
Nfr-2	Security	The information belongs to the user and leaves are secured highly.
Nfr-3	Reliability	The leaf quality is important for predicting the disease in the 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 users to predict the disease in the plant
Nfr-6	Scalability	Increasing the prediction of the disease in the leaf