Project Design Phase – II

Solution requirements (functional and non-functional)

Date	15 October 2022
Team id	PNT2022TMID35918
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 is used to detect the disease that is present in the leaf.
Nfr-2	Security	The information belongs to the user and leaves are highly secured.
Nfr-3	Reliability	The leaf image quality is important for predicting the disease in the leaf.
Nfr-4	Performance	The performance is based on the quality of the leaf image used for disease prediction.
Nfr-5	Availability	It is available for all the users to predict the disease in the plant.
Nfr-6	Scalability	Increasing the accuracy of prediction of the disease in the leaf.