Project Design Phase - II

Solution requirements (functional and non-functional)

Date	18October 2022
Team id	PNT2022TMID18714
Project name	Fertilizer recommendation
	system for disease prediction
Maximum marks	4 marks

Functional requirement:

Following are the functional requirements of the proposed solution.

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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 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 leaf is
		used to detecting the disease
		that present in the leaf.
Nfr-2	Security	The information belongs to
		the user and leaf are secured
		highly.
Nfr-3	Reliability	The leaf quality is important
		for the predicting the disease
		in 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 user to
		predict the disease in the
		plant
Nfr-6	Scalability	Increasing the prediction of
		the disease in the leaf