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

Date	03 October 2022
Team ID	PNT2022TMID17339
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	Functional	Sub Requirement (Story / Sub-Task)
No.	Requirement (Epic)	
FR-1	User Registration	Registration through Form
		Registration through Gmail
		Registration through LinkedIN
FR-2	Image Capture	Capture image of leaf
		Check the leaf is captured under given
		parameters
FR-3	Image Processing	Upload the leaf image
		Start detection
FR-4	Leaf Prediction	Identify the parameter to be considered
		for the identification of diseases.
FR-5	Image Description	Show the prescribed fertilizer to be
		used for un healthy leaf
FR-6	Providing Dataset	Training datasets
		Testing datasets
FR-7	Adding Datasets	Fruit dataset and vegetable dataset
FR-8	Updated Native	Languages can be changed according
	Language options	to the user wish

Non-functional Requirements:

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

FR No.	Non-Functional	Description
	Requirement	
NFR-1	Usability	Leaf datasets can be used for
		detection of all kind of leaf's
		Datasets can be reusable Data sets
		can be prepared according to the
		leaf
NFR-2	Security	User information and leaf data are
		secured
		The algorithms used are more
		secure
NFR-3	Reliability	The leaf quality is more
		The datasets and image capturing
		performs consistently well
NFR-4	Performance	Leaf problem defines once the leaf
		is detected
		Performs well according to the
		quality of leaf provides certain cure
		to it.
NFR-5	Availability	Quality of leaf will be used again
		for detection
		Available and easy access of
		datasets provided
NFR-6	Scalability	Increase in growth of predicting the
		results and defining a leaf