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

Date	16 October 2022
Team ID	PNT2022TMID36196
Project Name	FERTILIZERS RECOMMENDATION SYSTEM FOR
	DISEASE PREDICTION
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Google Account
		Registration through Gmail
		Registration through Form
FR-2	User Confirmation	Confirmation via Email
		Confirmation via OTP
FR-3	Required Data	The user should upload the clear image of the sample
		(Fruit Or Vegetable) that affected by the disease.
FR-4	Image Processing	The uploaded image by the user is processed by the AI
		to predict the disease and to suggest the required
		fertilizer.
FR-5	Dataset	Data of the fruits and vegetables.
		Data of the diseases.
		Data of the fertilizers.
FR-6	System notification	The application will notify the user once the complete
		processing is over and the suggestion to increase the
		productivity of the crops can also notified.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The disease can be predicted in the early stage and
		the fertilizer required is suggested.
NFR-2	Security	The user data will be secured and protected against
		malware attacks or unauthorized access.
NFR-3	Reliability	The prediction of the disease will be more accurate
		when the high quality image sample is uploaded.
NFR-4	Performance	Prediction of disease is easier and faster than the
		previous model.
NFR-5	Availability	The application is available 24/7 to the user during
		their subscription period.
NFR-6	Scalability	The application shall be able to support an annual
		growth of 10 percentage of new customers and the
		datasets are updated.