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

Date	13October 2022
Team ID	PNT2022TMID36157
Project Name	Fertilizer recommendation on disease prediction
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Specific characteristics	It identifies the diseases especially rice bran diseases
FR-4	Functions	The proposed methods uses the SVM to classify tree leaves, identify the diseases and suggest the fertilizer.
FR-5	Fault tolerance	This study enables a possible prediction of crop yield from the historic data collected and offers a suggestion to farmers.
FR-6	Analyze	It helps us to classify the data based on the diseases, and data extracted from the classifier is used to predict soil and crop.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Crop and fertilizer recommendation system help the farmer to identify the diseases.
NFR-2	**Security**	The proposed method combines two major aspects in farming , pest identification and insecticide recommendation.
NFR-3	**Reliability**	It is easy use so that health issues can be avoided.
NFR-4	**Performance**	Precision fertilizer and precision crops is mostly used. They used to predict the crop in artificial intelligence.
NFR-5	**Availability**	reduces the losses as ammonia , nitrate leaching, apply the right rate, apply accurately.
NFR-6	**Scalability**	If the soil is not replenised with nutrients through fertilizing ,crop yields will deteriorate over time.