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

Date	03 NOVEMBER 2022
Team ID	PNT2022TMID26854
Project Name	Project – IOT Based Smart Crop Protection System For Agriculture
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	Install the app. Signing up with Gmail or phone number Creating a profile. Understand the guidelines.
FR-2	User Confirmation	Email or phone number verification required via OTP.
FR-3	Accessing datasets	Data's are obtained by Cloudant DB.
FR-4	Interface sensor	Connect the sensor and the application When animals enter the field , the alarm is generated.
FR-5	Mobile application	It is used to control motors and field sprinklers.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	This project's contributes the farm safety via the clever safety system.
NFR-2	**Security**	It was created to protect the crops from animals.
NFR-3	**Reliability**	Farmers are capable of protect their lands through assist of this technology. They may even advantages from better crop yields, a good way to enhance our monetary situation.
NFR-4	**Performance**	When animals try to input the field, IOT gadgets and sensors alert the farmer through message.
NFR-5	**Availability**	We can guard the plants towards wild animals with the aid of using growing and enforcing resilient hardware and software.
NFR-6	**Scalability**	Scalability This system's integration of pc imaginative and prescient algorithms with IBM Cloudant offerings makes it greater green to retrieve photographs at scale, improving scalability