

# SOLUTION REQUIREMENTS.

Project Name	IOT Based Smart Crop Protection System for Agriculture.
Team ID	PNT2022TMID22196
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## Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
1	User Registration	Install the app. Signing up with Gmail or phone number Creating a profile. Understand the guidelines.
2	User Confirmation	Email or phone number verification required via OTP.
3	Accessing datasets	Data's are obtained by cloudant DB.
4	Interface sensor	Connect the sensor and the application When animals enter the field , the alarm is generated.
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
1	Usability	This project's contributes the farm protection through the smart protection system.
2	Security	It was created to protect the crops from animals.
3	Reliability	Farmers are able to safeguard their lands by help of this technology. They will also benefits from higher crop yields, which will improve our economic situation.
4	Performance	When animals attempt to enter the field, IOT devices and sensors alert the farmer via message.

5	Availability	We can defend the crops against wild animals by creating and implementing resilient hardware and software.
6	Scalability	This system's integration of computer vision algorithms with IBM cloudant services makes it more efficient to retrieve photos at scale, enhancing scalability.