

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

Date	17 October 2022
Team ID	PNT2022TMID02468
Project Name	Project - SMART CROP PROTECTION USING IOT
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 with Gmail,Create a Profile,Observe the guidelines.
FR-2	User Confirmation	Email Confirmation required via otp
FR-3	Interface sensor	Connect the sensor and application when animals enter the field,alarm is detected.
FR-4	Accessing datasets	Set of data is obtained from the cloudant
FR-5	Mobile application	Mobile application can be used to controls the motors.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Mobile support user must be able to interact in the roles and task on like mobile devices.The project contribution through the smart protection system.
NFR-2	Security	This project mainly for protect the crop from the animals.
NFR-3	Reliability	It will improve the higher crop yields and also improve their economic situation.In this system,Farmers will be able to safeguard their lands.
NFR-4	Performance	When animals attempt to enter the field,It alert the farmer via message.
NFR-5	Availability	It can defend the crops against wild animals by hardware and software.lot device highly available for 24*7 operations.
NFR-6	Scalability	IBM clodant services make more efficient to retrieve photos ,enhancing scalability.