

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

Date	08 October 2022
Team ID	PNT2022TMID52180
Project Name	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 Sign up with gmail or mobile number Create a username and password Create a profile.
FR-2	User Confirmation	Accept the user agreement Verify the mail id by entering the mail id.
FR-3	Accessing datasets	The data that are stored in the cloud
FR-4	Interface sensor	The sensors in the field that helps to detect whether the animals entered the field
FR-5	Mobile application	The mobile application which may be used to control and detect the protection of crops.
FR-6	Software used	The software used in the system which may be used to analyse the monitoring of the process.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The project is supposed to protect the farm and field from danger.
NFR-2	Security	The security provided in the crop protection is highly protected.
NFR-3	Reliability	The farmers in the field are able to safeguard their lands with the help of technology.
NFR-4	Performance	The performance on the system is more sensitive and better than the system.
NFR-5	Availability	The crops can be protected from danger which may yield high crop production in the real time.
NFR-6	Scalability	The system which uses a high scalability with more efficient to increase the production.