

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

Date	15 October 2022
Team ID	PNT2022TMID34905
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	Registration through phone call. Registration through Gmail. Registration through WhatsApp.
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Payment	Payment through Google pay, net banking, paytm.
FR-4	User complaints	Complaints can be filled through Email and customer care number would be shared to the user during the delivery of the product.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	User friendly and simple. We can learn to use this device within a week.
NFR-2	Security	Highly secure because the data would be shared only to the users mobile phone. No other person except the owner can get access to the data.
NFR-3	Reliability	Only if there is any network issue then it would take time to send information to the user, or else it would perform properly. Stability of the

		entire device is good. Reliability is reduced only if the network is not proper.
NFR-4	Performance	It works 24*7. Updating of change in data is very fast. The data that is sent to the user cannot be manipulated. The sensor devices are precise and accurate. Overall performance of the device is good.
NFR-5	Availability	The device if properly maintained then the availability can be extended. The minimum lifetime of the device is 2 years.
NFR-6	Scalability	This solution is scalable enough to fit the IOT Based Smart crop protection system for agriculture by using the sensors. The cost and use of this project is affordable hence it is very useful for farmers