

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

Date	13 October 2022
Team ID	PNT2022TMID11029
Project Name	Project - lot Based Smart Crop Protection System
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 Requirements	Crop Protection Automatic Sprinkler System Monitors Soil Moisture ,Humidity and Temperature
FR-2	User Registration	Manual Registration Registration through webpage Registration through Form Registration through Gmail
FR-3	User Confirmation	Confirmation via Phone Confirmation via Email Confirmation via OTP
FR-4	Payment Options	Cash on Delivery Net Banking/UPI Credit/Debit/ATM Card
FR-5	Product Delivery and Installation	Door Step delivery Take away Free Installation and 1 year Warranty
FR-6	Product Feedback	Through Webpage Through Phone calls Through Google forms

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Have an easy-to-understand guidebook. simpler to use The product is easy to use even by farmers who are illiterate
NFR-2	Security	Application security requires two-step authorization. Passwords and passkeys will be given out based on the needs of the users.
NFR-3	Reliability	Hardware needs to be checked and maintained regularly. Periodic software updates are possible. Any system breakdown will result in an immediate alarm.
NFR-4	Performance	The programme needs a good user interface. It should just demand a small amount of energy. It must conserve energy and water.
NFR-5	Availability	Every function will be accessible whenever the user needs it. It depends on the farmer's requirements and the level of customization the user has undertaken
NFR-6	Scalability	Regardless of the size or area of a farm field, the product must cover the entire area of the ground.