

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

Date	15 October 2022
Team ID	PNT2022TMID11082
Project Name	Project - lot Based Smart Farming 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 Requirements	Predator Protection Automatic Sprinkler System Monitors Soil Moisture ,Humidity and Temperature
FR-2	User Registration	Manual Registration Registration through webpage Registration through Form Registration through Email
FR-3	User Confirmation	Confirmation via Email OTP authentication
FR-4	Payment Options	Cash on Delivery Net Banking/UPI Credit/Debit/ATM Card
FR-5	Product Delivery and Installation	Door Step delivery Pre-Booking Free Installation and 1 year Warranty
FR-6	Product Feedback	Through Webpage Through Phone calls Through Emails

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Have a clear and self-explanatory manual. Easier to use. The product must be easy for even an illiterate farmer to use.
NFR-2	Security	Application has to be secured with 2 step authentication Passwords and passkeys will be assigned as per the users need.
NFR-3	Reliability	Hardware requires a regular checking and service Software may be updated periodically In case of any system failure the immediate alert is provided.
NFR-4	Performance	Good user interface application. It should have a minimal energy requirement. Water and Energy is saved.
NFR-5	Availability	All the features that the user demands will be provided, depends on the need of the farmer.
NFR-6	Scalability	The product has to cover all the space of land irrespective of the size or area of a farm field.