

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

Date	16 October 2022
Team ID	PNT2022TMID41289
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	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Requirements	Crop Protection Monitors Soil Moisture, Temperature and Humidity Automatic Sprinkler System
FR-4	Payment Options	Cash on Delivery Net Banking/UPI Credit/Debit/ATM card
FR-5	Product Delivery and Installation	Door Step delivery Marketing, Product Camp Free Installation and One 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	<b>Usability</b>	Easier to use Even an illiterate farmer have to use the product without any difficulties
NFR-2	<b>Security</b>	The system can accessed by authorized the users need
NFR-3	<b>Reliability</b>	Monitoring the temperature parameter and providing clear solution Immediate alert is provided in case of any system failure

NFR-4	<b>Performance</b>	The performance should be very effective and efficiency
NFR-5	<b>Availability</b>	All the features will be available when the user requires
NFR-6	<b>Scalability</b>	The product has to cover all the space of the land The system should have upgradable feature