

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

Date	14 October 2022
Team ID	PNT2022TMID11108
Project Name	Project – A low cost cloud-Based IoT System for Real-Time Monitoring and Controlling for Smart Farming
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 a clear and self-explanatory manual. Easier to use Even an illiterate farmer have to use the product without any difficulties
NFR-2	Security	Application has to be secured with 2 step authorisation 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 Immediate alert is provided in case of any system failure
NFR-4	Performance	The application must have a good user interface It should have a minimal energy requirement
NFR-5	Availability	All the features will be available when the user requires. It depends on the need of the farmer and the customization the user has done.
NFR-6	Scalability	The product has to cover all the space of land irrespective of the size or area of a farm field.