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

Date	15 October 2022
Team ID	PNT2022TMID35809
Project Name	Project – IOT based Smart Crop
	Protection for Agriculture
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR	Functional	Sub Requirement (Story / Sub-Task)
No.	Requirement (Epic)	
FR-1	User Requirements	 Protect the Crop fields from the Animals and birds through the Mobile App. Monitors the temperature. and Moistures of the Soil. Automatic Irrigation system. Identified threats notified by sms.
FR-2	User Registration	 Registration through websites or app. Registration through Gmail. Verification and OTP confirmation through gmail and sms.
FR-3	Payments Options	 Cash on delivery. Net Banking. UPI Payments. Credit/Debit cards.

FR-4	User Complaints	 Send the Complaints to the manufacturer through Gmail or through the websites where they initially know about it. Help option and complaints option will be available in web or app. Customers can complaint through customer care services.
FR-5	Product Delivery and Installation	 Door step Delivery. Free installation with 2 year warranty. Product can be purchased through the app or from the location of company stores.
FR-6	Return Policy	 The Defected Product will be taken back within a week. Product will be replaced and in extreme cases amount will be refunded.

Non-functional Requirements:

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

FR	Non-Functional	Description
No.	Requirement	-
NFR-	Usability	 Product can be used without any complications. They can easily use this product after reading the instructions provided along with the products. They are provided with user manual.
NFR- 2	Security	 Secure the application from others by using passwords or patterns based on user wishes.
NFR-	Reliability	 Hardware need frequent check. Software Service is Periodically Updated. Hardware service can be done by company service man periodically.
NFR-	Performance	 The application is user friendly and the time taken to execute the functions is very less. User can handle the equipment by manual instruction and functionality remains unchanged.

NFR- 5	Availability	 It can be used at anywhere by the user at anytime whenever requires. Access and controlling can be done at anytime from the place where we are.
NFR- 6	Scalability	The product will cover the total area of the user's crop field and connect the entire field area to the user 24/7.