Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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Project Name	Project - 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 Requirements**	Crop Protection System, Automatic Irrigation System, Monitors the Soil Moisture, Monitors the field through Mobile app.
FR-2	**User Registration**	Registration through Gmail, Registration through Form, Registration through website,
FR-3	**User Confirmation**	Confirmation via Email Confirmation via OTP
FR-4	**Payment Options**	Bank Transfer, Cash on Delivery, Online Payments, Credit Card / Debit Card.
FR-5	**Product Delivery andInstallation**	Door Step delivery,Take away, Free Installation with 1 year Warranty.
FR-6	**Product Feedback**	Through Website, Through Google forms and Through Email.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Usage is effective, Product information will be provided clearly, Products can be used without any complications and it is easy to use.
NFR-2	**Security**	Application is secured with Two step Verification, Passwords and patterns will be assigned as per the user requirements they needed. Cloud data includes in the network.
NFR-3	**Reliability**	Hardware requires a regular and frequent check and Software Service is Periodically Updated.
NFR-4	**Performance**	The application has a well user interface, Energy requirement is less.
NFR-5	**Availability**	The features will be available at the user required time. It depends on the need of the farmer and the Customization of the the user.
NFR-6	**Scalability**	The product has to cover all the space of a farm field and it is user and eco-friendly in nature.