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

Date	03 October 2022
Team ID	PNT2022TMID11808
Project Name	Smart farmer - Iot Enabled Smart Farming Application
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**	The Crop Protection Automatic Sprinkler System monitors soil moisture, temperature, and humidity.
FR-2	**User Registration**	Registration Manual online registration Registration using a form Using Gmail for registration.
FR-3	**User Confirmation**	Required phone confirmation email confirmation Assurance through OTP.
FR-4	**Payment Options**	Net Banking, UPI Cards, Credit Cards, and ATMs are available upon cash delivery.
FR-5	**Product Delivery and Installation**	Delivery from door to door Take away Free installation, as well as a 12-month warranty.
FR-6	**Product Feedback**	Through a website Using phone calls and 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 manual that is simple to understand. easier to use Even farmers without a formal education can utilise the product with ease.
NFR-2	**Security**	Two-step authorisation is required for application security. Passwords and passkeys will be assigned based on the user's requirements.
NFR-3	**Reliability**	Regular maintenance and inspections are required for hardware. Software updates could happen periodically. An immediate alarm will sound in the event of any system failure.
NFR-4	**Performance**	A nice user interface is necessary for the programme. It shouldn't require much energy at all. Both water and energy must be saved.
NFR-5	**Availability**	Every feature will always be available to the user. It depends on what the farmer needs and how much customisation the user has done.
NFR-6	**Scalability**	No matter how big or large a farm field is, the product needs to completely cover the ground.