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

Date	15 October 2022
Team ID	PNT2022TMID11120
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**	Sensors for soil scanning and water, light, humidity and temperature management
FR-2	**User Registration**	Manual Registration Website Registration Form-based registration Gmail-based registration
FR-3	**User Confirmation**	Mobile number confirmation Email Verification Reassurance via OTP
FR-4	**Payment Options**	Cash on delivery Net Banking, UPI, Credit Card, Debit Card and Net Banking
FR-5	**Product Delivery and Installation**	Home delivery Free installation and one year warranty
FR-6	**Product Feedback**	Via phone calls and website

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 utilize the product with ease.
NFR-2	**Security**	Two-step authorization is required for application security. The assignment of passwords and passkeys will be 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 customization 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.