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

Date	06 November 2022
Team ID	PNT2022TMID22120
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 Registration	Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Log in to system	Check Roles of Access Check Credentials
FR-4	Manage Modules	Manage System Admins Manage Roles of User Manage User permission
FR-5	Check whether details	Temperature details Humidity details
FR-6	Log out	Exit

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Usability is the capacity to pick something up fast, utilise it efficiently, retain it, use it without making a mistake, and enjoy it.
NFR-2	**Security**	Information that is private or confidential must always be kept secure, including when being gathered, processed, and stored.
NFR-3	**Reliability**	With shared protection, a better cost-to-reliability trade-off is realised. The strategy makes use of specialised and shared protective techniques to prevent interruptions in agricultural service.
NFR-4	**Performance**	If integrated sensors are employed to monitor soil and environmental features, farming operations will be monitored more successfully overall.

NFR-5	**Availability**	It is possible to automatically change temperature, humidity, and other aspects of farming equipment by connecting data about crops, weather, and equipment.
NFR-6	**Scalability**	Scalability for IoT platforms is a significant concern. It has been shown that different architectural choices made for IoT platforms affect the scalability of the system and that automatic real-time decision-making is feasible even in a situation with a large number of users.