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

Date	03 October 2022
Team ID	PNT2022TMID11377
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 message
FR-3	Log in to system	Check Credentials Check Roles of Access.
FR-4	Manage Modules	To manage System Admins To manage Roles of User To manage User permission
	Check whether details	Temperature details Humidity details
	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 includes easy to learn, efficiency in use, remember ability, lack of errors in operation and subjective pleasure.
NFR-2	**Security**	Sensitive and private data in terms of software database management and warehouse storage must be protected from their production until the decision-making and storage stages
NFR-3	**Reliability**	The shared protection achieves a better trade-off between costs and reliability. This model uses dedicated and shared protection schemes to avoid farm service outages.
NFR-4	**Performance**	The idea of implementing integrated sensors with sensing soil and environmental or ambient parameters farming will be more efficient for overall monitoring and selling of products.

NFR-5	**Availability**	Automatic adjustment of farming equipment made possible by linking information like crops/weather and which would help the farmers to get connected with the environmental conditions easily.
NFR-6	**Scalability**	Scalability is a major concern for IoT platforms. It has shown that different architectural choices of IoT platforms affect system scalability and that automatic real time decision-making is feasible in an environment composed of dozens of thousand.