Project Design Phase – II

Solution Requirements (Functional & Non-functional)

SMART FARMER – IoT ENABLED SMART FARMING APPLICATION

Team ID	PNT2022TMID12911

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 Credentials Check Roles of Access.
FR-4	Manage Modules	Manage System Admins Manage Roles of User Manage User permission
FR-5	Check Weather details	Temperature details Humidity details
FR-6	Log out	Exit

Non-Functional Requirements:

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

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	Usability refers to efficiency in use, remember ability, lack of errors in operation and subjective pleasure.
NFR-2	Reliability	The shared projection achieves a better trade-off between costs and reliability.
NFR-3	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.
NFR-4	Security	Sensitive and private data must be protected from their production until the decision making and storage stages.

NFR-5	Performance	The idea of implementing integrated sensors with sensing soil and environmental or ambient parameters in farming will be more efficient for overall monitoring.
NFR-6	Availability	Automatic adjustment of farming equipment made possible by linking information like crops/weather and equipment to auto-adjust temperature, humidity, etc