Solution Requirements (Functional & Non-functional)

Date	15 October 2022
Team ID	PNT2022TMID49483
Project Name	Project – Smart farmer-IoT enabled Smart farming application.
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	**User Registration**	Registration through Gmail
FR-2	**User Confirmation**	Configuration via email/OTP
FR-3	**Login to system**	Check credentials Check Role of Access
FR-4	**Manage modules**	Manage system Admins Manage Role of User Manage User permission
FR-5	**Check details**	Temperature details Humidity details
FR-6	**Log out**	Exit

Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	•High productivity •Less time consumption •Easy to learn
NFR-2	**Security**	Sensitive and private data must be protected from their production untill the decision making and storage stages
NFR-3	**Reliability**	Accuracy of data and hence it is Reliable.
NFR-4	**Performance**	The idea of implementing the integrated sensors with sensing soil and environmental or ambient parameters in farming will be more efficient for overall monitoring
NFR-5	**Availability**	Automatic adjustment of farming equipment made possible by linking information like crops, weather and equipment to auto adjust temperature, humidity, watering crops,etc.
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 thousands.