Functional Requirements (Functional & Non-functional)

Date	14 Nov 2022
Team ID	PNT2022TMID43969
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.