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

Date	17 October 2022
Team ID	PNT2022TMID02650
Project Name	Project – IOT ENABLED SMART FARMING APPLICATION SYSTEM.
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 Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	As a user Confirmation via Email then generate the Confirmation via OTP
FR-3	Login in to system	Once confirmation message received after go to the manage modules.
FR-4	Check Credentials	Once check the credentials after go to manage modules. manage roles of user Manage user permission
FR-5	Manage modules	In this manage modules descried the below function like Manage system admins Manage roles of user Manage user permission and manage temperature and humidity details
FR-6	Logout	Then manage the data of weather conditions Manage the data of crop conditions and live stock conditions then logout or exist the application.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	• User friendly guidelines for users to avail the features. • Most simplistic user interface for ease of use.
NFR-2	**Security**	• Sensitive and private data must be protected from their production until the decision-making and storage stages

		• All the details about the user are protected from unauthorized access. • Detection and identification of any misfunctions of sensors.
NFR-3	**Reliability**	• The shared protection achieves a better trade-off between costs and reliability. • The model uses dedicated and shared protection schemes to avoid farm service outages.
NFR-4	**Performance**	The use of modern technology solutions helps to achieve the maximum performances thus resulting in better quality and quantity yields.
NFR-5	**Availability**	Automatic adjustment of farming equipment made possible by linking information like crops/weather and equipment to auto-adjust temperature, humidity, etc.
NFR-6	**Scalability**	scalability is a major concern for IoT platforms. It has been 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.