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

Date	14 October 2022
Team ID	PNT2022TMID14367
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	User Registration is through Gmail or Form
FR-2	User Confirmation	Confirmation via Email or Confirmation via OTP
FR-3	Log in to system	Once confirmation message is received, login the system and Check the Credentials
FR-4	Check Credentials	The credentials are checked,then proceeded to the Manage modules.
FR-5	Manage modules	The manage modules describes the below functions Like : it manages the role of the user and manage the user permission.
FR-6	Data Management	Manages the data of the weather conditions,crop conditions and live stock conditions

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description

NFR-1	**Usability**	It involves understanding the users and their associated parameters such as their expectations,needs,behaviors, interests and responsibilities.It also suggests maximizing the stabilityof the interface by avoiding abrupt and far reaching changes of the view when they are not necessary.
NFR-2	**Security**	It enables the confidentiality,integrity and availability.These are the basic building blocks of any security.
NFR-3	**Reliability**	The shared protection achieves a better trade-offbetween costs and reliability. The model uses dedicated and shared protection schemes to avoid farm service outages.
NFR-4	**Performance**	the idea of implementing integrated sensors withsensing 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, 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.