Project Design Phase-II Solution Requirements (Functional & Nonfunctional)

Date	15 October 2022
Team ID	PNT2022TMID11451
Project Name	Project – Smart Farmer-IoT Enabled smart Farming Application.
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Functional Requirement (Epic)	Requirement for a supporting story or task
FR-1	User Registration	Utilizing a Form for Registration signing up with Gmail
FR-2	User Confirmation	Email confirmation required Reassurance through OTP
FR-3	Sensor Function for framing System	Take temperature and humidity readings. Monitoring the Soil Measurement Look into crop diseases.
FR-4	Manage Modules	Manage User Roles controlling user permission
FR-5	Check whether details	temperature information Humidity information
FR-6	Data Management	Organize the information about the weather Control the agricultural conditions data. control the live stock circumstances data

Non-functional Requirements:

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

FR No.	Non-	Description	
	Functional		
	Requirement		
NFR-1	Usability	✓ User friendly guidelines for users to avail the features.	
		✓ Most simplistic user interface for ease of use.	
NFR-2	Security	 ✓ All the details about the user are protected from unauthorized access. 	
		✓ Detection and identification of any misfunctions of sensors.	
NFR-3	Reliability	✓ Implementing Mesh IoT Networks	
		✓ Building a Multi-layered defence for IoT Networks.	
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	This app is available for all platforms	
NFR-6	Scalability	Scalability refers to the ability to increase available resources and	
		system capability without the need to go through a major system	
		redesign or implementation.	