## Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	03oct20022
Team ID	PNT2022TMID48172
Project Name	Project – Smart Farmer-IoT Enabled
	smart Farming Application
Maximum Marks	4 marks

## **Functional Requirements:**

Following are the functional requirements of the proposed solution.

FR No.	Functional	Sub Requirement (Story / Sub-Task)
	Requirement (Epic)	
FR-1	User Registration	Registration through Form Registration
		through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via
		OTP
FR-3	Sensor Function for	Measure the Temperature and Humidity
	framing System	Measure the Soil Monitoring Check the
		crop diseases
FR-4	Manage Modules	Manage Roles of User Manage User
		permission
FR-5	Check weather details	Temperature details Humidity details
FR-6	Data Management	Manage the data of weather conditions
		Manage the data of crop conditions Manage
		the data of live stock conditions

## **Non-functional Requirements:**

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

NFR No.	Non-Functional	Description
	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	Automatic adjustment of farming
		equipment made possible by linking
		information like crops/weather and equipment
1777	~ 1.1.11	to auto-adjust temperature, humidity, etc.
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.