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

Date	03 October 2022
Team ID	PNT2022TMID06181
Project Name	Project – Smart Farming-IOT Enabled Smart Farming Application
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	Sensor Function for framing System	Measure the Temperature and Humidity Measure the Soil Monitoring Check the crop diseases
FR-2	Device send the parameter	Device can be measuring the parameter and send the value for user
FR-3	Alarm System	Any parameter can be change send the alarm Device can be over power send the alarm
FR-4	GSM module	Parameter sending process used by GSM module Sending process is speed for anytime.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	It helps farmers to better important factors such as water, topography, aspect, vegetation and soil types
NFR-2	**Security**	The set of protocols, and technologies use the data to monitor automate farming activities and storage, management and data processing combined with internet connectivity bring several issues and security threats
NFR-3	**Reliability**	Smart Farming can improve sustainability. From reducing spray wastage to improving fuel economy. By reducing the number of passes needed to complete tasks and reducing turning on the headland soil compaction is minimised
NFR-4	**Performance**	Smart Farming device can be easy working. There are many ways smart devices can help you increase your farm's performance and revenue.
NFR-5	**Availability**	This device can be available is any platforms. All components for placed in the device.
NFR-6	**Scalability**	Scalability is another requirement that should be considered in a smart farming platform. Scalability refers to the ability to increase available resources and system capability without the need to go through a major system redesign or implementation.