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

Date	03 October 2022
Team ID	PNT2022TMID09801
Project Name	SmartFarmer - IoT Enabled Smart Farming Monitoring 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)
Online		
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Cloud Account	Creating an IBM cloud account Sign in and confirmation via OTP/Mail
FR-4	MIT App Account	Download MIT App Sign up/Sign in MIT App Confirmation via OTP/Mail
Offline		
FR-1	Sensor Setup	Setting up of required sensors in required places Connecting the main controller to the IBM cloud platform

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Usability includes easy learnability, efficiency in use, remembering, and subjective pleasure.
NFR-2	**Security**	Data will be protected from their production until the decision-making and storage stages.
NFR-3	**Reliability**	By using a share protection scheme we can provide better security at optimal cost
NFR-4	**Performance**	The idea of implementing integrated sensors in the field will be more efficient for overall monitoring.

NFR-5	**Availability**	Data is will stored in the cloud and so will be available globally.
dNFR-6	**Scalability**	Since cloud technology has a variety of scalability options we can scale based on the needs in realtime