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

Date	14 October 2022
Team ID	PNT2022TMID2246
Project Name	Project –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	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	IBM Account and Github	Registering the account Log in and verify
FR-4	Node-RED	Creating the account and made the connections
FR-5	Open weather API	Get the data and access the resource
FR-6	MIT app inverter	Download MIT App Sign in/Sign up in MIT app Confirmation via mail
FR-7	Python	Encode the python code for smart farming

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	It includes easy learnability, efficiency in use, subjective pleasures and effective.
NFR-2	**Security**	It has less security features due to integration of sensor data.
NFR-3	**Reliability**	It specifies how likely the system or its element would rum without a failure.
NFR-4	**Performance**	The use of modern technology solutions helps to achieve maximum performance thus resulting in better quality and quantity yields.
NFR-5	**Availability**	With permitted network connectivity the application is accessible
NFR-6	**Scalability**	Scalability is main concern for IOT platform. It can be easily scalable for large farming