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

Date	06 November 2022
Team ID	PNT2022TMID22393
Project Name	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 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	Sensor Function for framing system	Measure the temperature and humidity. Monitoring the soil moisture and checking the yield of the crop.
FR-4	Manage Modules	Manage roles of users Manage User permission
FR-5	Check weather details	Humidity details Temperature details
FR-6	Data Management	Manage the data of weather conditions Manage the data of crop conditions Manage the data of moisture conditions

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	• User friendly guidelines for farmers to know the features. • This platform makes user ease of use.
NFR-2	**Security**	• All the details about the users are protected from unauthorized one. • Detection and identification of any malfunctions of sensors.
NFR-3	**Reliability**	• Building a Multi-layered defence for IoT Networks • Implementing Mesh IoT Networks
NFR-4	**Performance**	• The use of modern technology solutions helps to achieve the maximum

		performances thus resulting in better quality products.
NFR-5	**Availability**	• This app make available in 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.