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

Date	15 October 2022
Team ID	PNT2022TMID54368
Project Name	Smart Farmer – IoT Enabled Smart Farming Application
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
User Registration	Registration through mail id and password
User Confirmation	Confirmation via Email Confirmation via OTP
User login	Login using the credentials we have used during registration
User permission	**Smart Farming with IoT** relies increasingly on smart technology for the management of agricultural enterprises.
Using the intelligent system	IoT and AI solutions can get integrated into autonomous tractors to help collect real-time data about soil health, including water levels, temperature, and weather.

Non-functional Requirements:

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

Non-Functional Requirement	Description
Usability	It is very user friendly, any people with less knowledge also can easily understand.Remote Management. With farms being located in far-off areas and distant lands, farmers enable this for better solution.
Security	Smart farming, which involves the application of sensors and automated irrigation practices, can help monitor agricultural land, temperature, soil moisture, etc. This would enable farmers to monitor crops from anywhere.
Reliability	It has good consistency and Accuracy as it actively helps farmers to better understand the important factors such as water level,weather,humidity and soil mositure.

Performance	The performance of smart farming is high and it is very efficient as it is very easy to understand and has a high security and scalability.
Availability	This smart farming is enabled at any system like laptop , mobile phone , desktop, Gis and user friendly.
Scalability	smart farming refers to the adaptability of a system to increase the capacity,the number of technology devices such as sensors and actuators, while enabling timely analysis.