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

Date	11 november 2022
Team ID	PNT2022TMID44735
Project Name	SmartFarmer-IoT Enabled Smart Farming Application
Maximum Marks	4Marks

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	Sign Up with help of Gmail and the password as a user
FR-2	User Confirmation	User gets a confirmation Mail once he/she hassuccessfully Signed Up.
FR-3	Login	Login Credentials are checked at the time of Logging in.
FR-4	Dashboard	Once the credentials are checked, dashboard will be visible. It has the details of Atmospheric Temperature, Humidity, Soil Moisture and Motor ON/OFF function.
FR-5	Sensor function	Measure Temperature, humidity and soil moisture.
FR-6	Logout	When user clicked the log out button the user will besigned out.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Simplicity in accessing the details of temperature sensor measure, humidity sensor measure and weather conditions by the farmer. Easy controllingof the motor and irrigation system through application.
NFR-2	**Security**	Only the authenticated user can access the irrigationsystem and monitor the crop. Information of one user will not be shared to the other user or any

		other persons.
NFR-3	**Reliability**	This crop monitoring, Irrigation control and weather monitoring results in better trade-off between cost and reliability. It reduces time and yields more profit to the farmers.
NFR-4	**Performance**	The concept of integrating sensors with environment, soil and farming parameters will bemore efficient for overall supervision.

NFR-5	**Availability**	The details of all the sensors will be displayed in theapplication at any time.