

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

Date	15 October 2022
Team ID	PNT2022TMID31713
Project Name	Project – Smart Farmer-IoT Enabled smart Farming Application.
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Functional Requirement (Epic)	Requirement for a supporting story or task
FR-1	User Registration	Utilizing a Form for Registration signing up with Gmail
FR-2	User Confirmation	Email confirmation required Reassurance through OTP
FR-3	Sensor Function for framing System	Take temperature and humidity readings. Monitoring the Soil Measurement Look into crop diseases.
FR-4	Manage Modules	Manage User Roles controlling user permission
FR-5	Check whether details	temperature information Humidity information
FR-6	Data Management	Organize the information about the weather Control the agricultural conditions data. control the live stock circumstances data

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	<ul style="list-style-type: none">✓ User friendly guidelines for users to avail the features.✓ Most simplistic user interface for ease of use.
NFR-2	Security	<ul style="list-style-type: none">✓ All the details about the user are protected from unauthorized access.✓ Detection and identification of any misfunctions of sensors.
NFR-3	Reliability	<ul style="list-style-type: none">✓ Implementing Mesh IoT Networks✓ Building a Multi-layered defence for IoT Networks.
NFR-4	Performance	The use of modern technology solutions helps to achieve the maximum performances thus resulting in better quality and quantity yields.
NFR-5	Availability	This app is available for 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.