

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

Date	03 October 2022
Team ID	PNT2022TM ID 50062
Project Name	Project - IoT Based Smart Crop Protection System For Agriculture
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	Web Application	web-based application must have a continuous internet connection to function.
FR-4	Configure to Device	sends data from Android devices to Google.
FR-5	Database	store, and manage data within an organization.
FR-6	Python Script	IBM iot platform

Non-functional Requirements

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	the extent to which a system, product, or service can be used by specified users to achieve specified goals with effectiveness, efficiency.
NFR-2	Security	a discipline of cybersecurity dedicated to securing cloud computing systems
NFR-3	Reliability	measure of the probability that the cloud delivers the services it is designed
NFR-4	Performance	effectively monitor your cloud resources, to ensure all components communicate seamlessly
NFR-5	Availability	time that the data center is accessible or delivers the intended IT service as a proportion of the duration for which the service is purchased

<i>NFR-6</i>	<i>Scalability</i>	<i>Scaling up encompasses both quality and quality. It's about identifying what works, and bringing those approaches to scale</i>
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