

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

Date	14 October 2022
Team ID	PNT2022TMID30918
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 Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User sign in	Check Credentials Check Roles of Access.
FR-4	Monitoring	Monitor temperature, humidity and etc.,
FR-5	Analysis	Analysing different environment parameters.
FR-6	Processing	if environment parameters (temperature, humidity) exceeds its threshold value suggest the solutions like if water level is low means turn on the Water pump.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Farmers can monitor their land even when not near their field.
NFR-2	Security	OTP verification while login their account for user security.
NFR-3	Reliability	Environmental parameters are accurately monitored.
NFR-4	Performance	Improving yield compare to manual monitoring.
NFR-5	Availability	Can be accessed at anytime from anywhere with feasible internet facility.
NFR-6	Scalability	Scalability in smart farming refers to the adaptability of a system to increase the capacity of yield.