

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

Date	05 November 2022
Team ID	PNT2022TMID37201
Project Name	Project – 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	Log in	User's registered mail ID with password
FR-4	Input segments	Managing sensor data Managing operation of water pump Field data
FR-5	Logout	Exit

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Usability includes accessing the application through the mobile and easy access from anywhere anytime.
NFR-2	Security	Safeguarding sensor data until farmer makes decision regarding it. Protecting information from unauthorized access throughout its entire life cycle.
NFR-3	Reliability	The application uses a protected service data. Comparatively the yield of the crop will be high.
NFR-4	Performance	The usage of the sensors in the process of sensing field will be more efficient in the process of farming.
NFR-5	Availability	Digitalized weather monitoring, automatic irrigation to plants.
NFR-6	Scalability	The application enables farmers to make better land management decisions thereby helping them with increased productivity, regardless of the size of the land.