

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

Date	24 October 2022
Team ID	PNT2022TMID18473
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 Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Basic requirements	Smart phone with minimum 2GB RAM and 8GB ROM
FR-4	Access permission	User should enable their location, wifi.
FR-5	User details	Name, email id, mobile number.

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">❖ Can be used in all agricultural fields❖ Remote monitoring of the field❖ Efficient way of irrigation
NFR-2	Security	<ul style="list-style-type: none">❖ Access be available only to the authorized user❖ All the details about the user are protected from the unauthorized entity
NFR-3	Reliability	It can be accessed easily and accurately
NFR-4	Performance	It increases the quantity and quality of the crop
NFR-5	Availability	It is easily available at the presence of proper network connection
NFR-6	Scalability	It is scalable, but for a very large field ,we need more sensors