

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

Team ID	PNT2022TMID15028
Project Name	Project - SmartFarmer - IoT Enabled Smart Farming Application

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	As a user Registration through Gmail.
FR-2	User Confirmation	As a user Confirmation via Email then generate the Confirmation via OTP.
FR-3	Log in to system	Once confirmation message received after login the system and Check Credentials.
FR-4	Check Credentials	Once check the credentials after go to the Manage modules.
FR-5	Manage modules	In this manage modules described the below functions like: 1. Manage System Admins 2. Manage Roles of User 3. Manage User permission and etc.
FR-6	Logout	Then check Temperature, humidity and moisture after then logout or exist the application.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	User friendly guidelines for users to avail the features. Most simplistic user interface for ease of use.
NFR-2	Security	Sensitive and private data must be protected from their production until the decision-making and storage stages.

NFR-3	Reliability	The shared protection achieves a better trade-off between costs and reliability. The model uses dedicated and shared protection schemes to avoid farm service outages.
NFR-4	Performance	The idea of implementing integrated sensors with sensing soil and environmental or ambient parameters in farming will be more efficient for overall monitoring.
NFR-5	Availability	This app is available for all platforms(both Android and ios).
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.