

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

Date	15 October 2022
Team ID	PNT2022TMID53945
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
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Sensor Function for framing System	Measure the Temperature and Humidity Measure the Soil Monitoring Check the crop diseases
FR-4	Manage Modules	Manage Roles of User Manage User permission
FR-5	Check whether details	Temperature details Humidity details
FR-6	Data Management	Manage the data of weather conditions Manage the data of crop conditions Manage the data of live stock conditions

### Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	<ul style="list-style-type: none"><li>□ User friendly guidelines for users to avail the features.</li><li>□ Most simplistic user interface for ease of use.</li></ul>
NFR-2	<b>Security</b>	<ul style="list-style-type: none"><li>□ All the details about the user are protected from unauthorized access.</li><li>□ Detection and identification of any misfunctions of sensors.</li></ul>
NFR-3	<b>Reliability</b>	<ul style="list-style-type: none"><li>□ Implementing Mesh IoT Networks</li><li>□ Building a Multi-layered defence for IoT Networks.</li></ul>
NFR-4	<b>Performance</b>	The use of modern technology solutions helps to achieve the maximum performances thus resulting in better quality and quantity yields.
NFR-5	<b>Availability</b>	This app is available for all platforms
NFR-6	<b>Scalability</b>	Scalability refers to the ability to increase available resources and system capability without the need to go through a major system redesign or implementation.