

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

Date	15 October 2022
Team ID	PNT2022TMID33523
Project Name	SMART FARMER- IOT ENABLED SMART FARMING APPLICATION SYSTEM.
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	User has to register through Gmail.
FR-2	User Confirmation	User receives a confirmation via Gmail and also receives confirmation via OTP.
FR-3	Log in	After receiving confirmation mail, login to the system and check the credentials.
FR-4	Credentials Check	Once the credentials are checked, go to manage modules.
FR-5	Manage modules	Manage module describes the following functions 1. Manage system admins 2. Manage roles of user 3. Manage user permission
FR-6	Logout	Temperature, humidity and moisture is being checked. After checking these parameters logout or exit the application.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Indicates how effectively and easily the users can learn and use the system.
NFR-2	<b>Security</b>	Assuring all data inside the system or its part will be protected against malware attacks or unauthorized access.
NFR-3	<b>Reliability</b>	Specifies how likely the system or its element would run without a failure for a given period of time under predefined conditions. Traditionally, this probability of the agricultural parameters are expressed in percentages.
NFR-4	<b>Performance</b>	Deals with the measure of the system's response time under different weather conditions.
NFR-5	<b>Availability</b>	Describes how likely the application is accessible for a user at a given point of time.

NFR-6	<b>Scalability</b>	Assesses the highest workloads under which the system will still meet the performance requirements of measurements of temperature, humidity and moisture.
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