

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

Date	03 October 2022
Team ID	PNT2022TMID30026
Project Name	Project – IoT based crop protection agriculture 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	Registration through Form. Registration through Gmail. Registration through LinkedIN.
FR-2	User Confirmation	Confirmation via Email. Confirmation via OTP.
FR-3	User dashboard	Enter the user details . Change the password.
FR-4	User Select The category	Select Display Option click IBM ,Doctor constultant,Logut,Messenger.

**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>• This system will make the farm more productive using IoT .This research also carried out a System Usability.</li><li>• The session was designed to assess the User Interface usability.</li></ul>
NFR-2	<b>Security</b>	<ul style="list-style-type: none"><li>• Smart agriculture can improve agricultural processes in a more productive, efficient, and sustainable</li></ul>

		way.
NFR-3	<b>Reliability</b>	<ul style="list-style-type: none"> <li>Most IoT devices are expected to be deployed outdoors (in fields and farms). Harsh work environments lead to the rapid degradation of IoT devices' quality and can lead to unexpected manufacturer failures.</li> </ul>
NFR-4	<b>Performance</b>	<ul style="list-style-type: none"> <li>system based on machine learning performances</li> <li>Network performance Evaluation</li> <li>Design performance evaluation</li> </ul>
NFR-5	<b>Availability</b>	<ul style="list-style-type: none"> <li>agriculture based on the ... are available to estimate indoor climate, crop production, and irrigation values</li> </ul>
NFR-6	<b>Scalability</b>	<ul style="list-style-type: none"> <li>Scalability of an internet of things platform for smart water management for agriculture</li> </ul>