

## ***SOLUTION REQUIREMENTS***

DATE	11 OCTOBER 2022
TEAM ID	PNT2022TMID47605
PROJECT NAME	SMART FARMER-IOT ENABLED SMART FARMING
MAXIMUM MARKS	4 MARKS

### ***Functional requirements:***

*Following are the functional requirements of the proposed solution.*

<b>FR No.</b>	<b>Functional Requirement (Epic)</b>	<b>Sub Requirement (Story / Sub-Task)</b>
<b><i>FR-1</i></b>	<b><i>User Registration</i></b>	<i>Registration through Gmail</i>
<b><i>FR-2</i></b>	<b><i>User Confirmation</i></b>	<i>Confirmation via Email</i>  <i>Confirmation via OTP</i>
<b><i>FR-3</i></b>	<b><i>Log in to system</i></b>	<i>Check Credentials.</i>  <i>Check Roles of</i>  <i>Access.</i>

<b>FR-4</b>	<b>Manage Modules</b>	<i>Manage System Admins</i>  <i>Manage Roles of</i>  <i>User .Manage User</i>  <i>permission</i>
<b>FR-5</b>	<b>Check whether details</b>	<i>Temperature details</i>  <i>Humidity details</i>  <i>Soil moisture details</i>
<b>FR-6</b>	<b>Log out</b>	<i>Exit</i>

## ***Non-functional requirements:***

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

<b>FR No.</b>	<b>Non-Functional Requirement</b>	<b>Description</b>
<b><i>NFR-1</i></b>	<b><i>Usability</i></b>	<i>Usability includes easy learn ability, efficiency in use, remember ability, lack of errors in operation and subjective pleasure.</i>
<b><i>NFR-2</i></b>	<b><i>Security</i></b>	<i>Sensitive and private data must be protected from their production until the</i>

		<i>decision-making and storage stages.</i>
<b>NFR-3</b>	<b>Reliability</b>	<i>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.</i>
<b>NFR-4</b>	<b>Performance</b>	<i>the idea of implementing integrated sensors with sensing soil and environmental or ambient parameters in farming will be more efficient for overall monitoring.</i>
<b>NFR-5</b>	<b>Availability</b>	<i>Automatic adjustment of farming equipment made possible by linking information like crops/weather</i>