

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

<b>Date</b>	15 October 2022
<b>Team ID</b>	PNT2022TMID28579
<b>Project Name</b>	Smart Farmer - IoT Enabled Smart Farming Application
<b>Maximum Marks</b>	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>
1	User Registration	Registration Through Gmail
2	User Confirmation	Confirmation Via Email Confirmation Via OTP
3	User Login	Login with Email Id and Password
4	Forgot Password	Login with Email Confirmation Of OTP
5	Query Form	Make a note of the problems and issues faced by user when using the application
6	Weather	To find the climate information of a particular area
7	Agro Note	To list of agriculture related information like how to plant, how much litres of water that plant need in a day etc
8	Sensors	To show various data from different sensors like temperature, humidity, soil moisture
9	Database Management	To show various agriculture related data are stored
10	Exit	After user checked every information, user can exit the application

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
1	<b>Usability</b>	Effective and Easy to Use
2	<b>Security</b>	The process of protecting data from Unauthorized Access
3	<b>Reliability</b>	Consistency and Accuracy and the shared protection achieves a better trade-off between costs and reliability
4	<b>Performance</b>	Measured and estimate the performance of the Productivity
5	<b>Availability</b>	24/7 services
6	<b>Scalability</b>	Scalability is main concern for IoT platforms. It supports third party sensors. It can be easily scalable for large farming.