Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	15 October 2022
Team ID	PNT2022TMID40817
Project Name	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)
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	**Usability**	Effective and Easy to Use
2	**Security**	The process of protecting data from Unauthorized Access
3	**Reliability**	Consistency and Accuracy and the shared protection achieves a better trade-off between costs and reliability
4	**Performance**	Measured and estimate the performance of the Productivity
5	**Availability**	24/7 services
6	**Scalability**	Scalability is main concern for IoT platforms. It supports third party sensors. It can be easily scalable for large farming.