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

Date	13 October 2022
Team ID	PNT2022TMID44926
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)
FR-1	User Registration	➢ The system must allow the user to register by leaving their email
FR-2	User Confirmation	➢ The system must send a confirmation email to the User
FR-3	User Login	➢ The system must allow the registered user to login by using their email
FR-4	Dashboard	➢ The system will show the apps features in the dashboard to the user
FR-5	Weather Monitoring	➢ The system shall provide the following weather parameters: Temperature , pressure, Wind speed & direction , rain fall and humidity .
FR-6	Motor Controls	➢ The system must provide when user give the Motor ON command then the system provide Motor ON to the User ➢ The system must provide when user give the Motor OFF command then the system provide Motor OFF to the User
FR-7	User feedbacks	➢ The system must allow the user to submit the feedback through a contact in the application

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	➢ An user friendly and simple web application . ➢ It is simply used by the help of tutorials .
NFR-2	Security	➢ Only registered person can access the web application. ➢ User can only share the data to another,no one can stolen their data. ➢ Data's are more secured.
NFR-3	Reliability	➢ If a data collection is slow for user it will check immediately to resolve that problem. ➢ Provide accuracy of data to the user
NFR-4	Performance	➢ Fast to monitoring the field ➢ It is used to turn on /turn off the motor within a second ➢ It shows the values of temperature , humidity , weather conditions at every time.
NFR-5	Availability	➢ Every where at any time available on the web application. ➢ It can be found on search engines like google,youtube etc….
NFR-6	Scalability	➢ It can be multiple command is given to act at a time it perform priority based. ➢ Reduced traffic in case of multiple user interaction