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

Date	03 October 2022
Team ID	PNT2022TMID23529
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	• Registration through Form • Registration through Gmail • Registration through Website
FR-2	User Confirmation	• Confirmation via Gmail • Confirmation via OTP
FR-3	Login Credentials	• The login credentials will be sent to Gmail as well as smart card are used • Password and username will be given sent personally • Login into application by entering username & password or by personal smart card
FR-4	Dashboard	• User profile will be displayed • Instruction will be provided in dashboard • The entire working model will be displayed • The function of components will be displayed as well as working principle and procedures are provided
FR-5	Platform	• The output will be shown and the function of all equipment can be seen
FR-6	Query	• The queries and doubts can be asked and solved by the administrator mentor

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	• The goal of this project is always been to apply newest potential results and practise • The product is compactible, economical, reliable and useful in practical • The usage of project is eco-friendly and easy to operate and manage • The replacement of the defected components are easy and familiar
NFR-2	**Security**	• This project will simulate research to solve platitude of security and data privacy issues in fast growing and economically important in smart farming sector • Camera is used to displayed for security and in addition of high protection vault is created in software basis so it is difficult to crack and steal the information.
NFR-3	**Reliability**	• The main reliability parameters have been monitoring and evaluating based on real experimental farming environment • The life span of project will be long and implementation cost is low
NFR-4	**Performance**	• The process of the system is fast and accurate results will be provided. • The modern technology and software is implemented so the performance will be good compared to others
NFR-5	**Availability**	• In the existing method we created new ideas with modern technology and software
NFR-6	**Scalability**	• The adaptability of a system to increase the capacity. • Performance optimization of system components