DESIGN PHASE II

REQUIREMENTS

(Functional & Non-Functional)

Project Title : SmartFarmer - IoT Enabled Smart Farming Application

Team Id : PNT2022MID32489

Functional Requirements of the Proposed System

FR NO	Functional Requirements (EPIC)	Sub Requirements
1	User Registeration	Email: Enter the Email Password: Enter the Password
2	Confirmation	Confirmation via Email
3	Log in to System	Serve Authenticated Content
4	Modules	User Permission Admin Module Roles of User
5	Condition Checking	Temperature Monitor Humidity Monitor Soil Moisture Monitor Motor Monitor Get Alert via Mobile
6	Logout	Exit

Non-Functional Requirements of Proposed System

NFR NO	Non-Functional Requirements	Description
1	Scalability	This means that IoT applications must have the ability to support an increasing number of connected devices, users, application features, and analytics

		capabilities, without any degradation in the quality of service.
2	Reliability	Reliability is defined as the probability that a product, system, or service will perform its intended function adequately for a specified period of time, or will operate in a defined environment without failure.
3	Usability	Usability includes easy understanding and learn ability, efficiency in use, remember ability, lack of errors in operation and subjective pleasure.
4	Efficiency	IoT can also increase productivity making farms more efficient. With the help of sensors, farmers can reduce water usage, energy consumption, and monitoring the humidity.
5	Performance	The idea of implementing integrated sensors with sensing soil and environmental parameters in farming will be more efficient.
6	Security	Sensitive and private data must be protected from their production until the decision-making and storage stages.