**Project Design Phase – II**

Solution Requirements (Functional & Non-Functional)

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| Date | 19 OCT 2022 |
| Team ID | PN2022TMID42977 |
| Project Name | SMART FARMER: IOT Enabled Smart Farming Application System |
| Maximum Marks | 4 Marks |

**Functional Requirement:**

Following are the Functional Requirements of the Proposed Solution.

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| --- | --- | --- |
| **FR NO:** | **Functional Requirment (Epic)** | **Sub Reuirement (Story/Sub-Task)** |
| FR-1 | User Registration | Email:  Enter email.  Password:  Enter password. |
| FR-2 | User Confirmaion | Confirmation via Email  Thanks for your email. |
| FR-3 | Log in to System | Serve Authenticated content |
| FR-4 | Manage Modules | Manage System Admins manage Roles of User Manage User Permission. |
| FR-5 | Check Whether Condition | Temperature Monitoring Status  Humidity Monitoring Status |
| FR-6 | Check Water Condition | Monitoring the Water level Sensor status |
| FR-7 Log Out Exit | | |

**Non-Functional Requirement:**

Following are the Non-Functional requirement of the Proposed Solution.

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| --- | --- | --- |
| **FR NO:** | **Non-Functional Requirement** | **Description** |
| NFR-1 | Usability | Usability Includes easy understanding and learn ability,efficiency in use ,remember ability, lack of errors in operation and subjective pleasure. |
| NFR-2 | Security | Sensitive and private data must be protected from their production until the decision making and storage stages. |
| NFR-3 | Reliability | The shared protection achieves a better trade-off between costs and reliability. |
| NFR-4 | Performance | The Idea of implementing integrated sensors with sensing soil and environmental parameters in farming will be more efficient. |
| NFR-5 | Availability | Automatic adjustment of farming equipment made possible by linking information like weather and equipment to auto adjustment Temperature,humidity. |
| NER-6 | Scalability | Scalability is most important to the IoT platforms. The IoT platforms affected syatem in scalability in an environment it composed dozens of thousands. |