**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

| Date | 03 October 2022 |
| --- | --- |
| Team ID | PNT2022TMID04781 |
| Project Name | SmartFarmer - 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 Monitoring | Monitoring Temperature  Monitoring Humidity  Monitoring Moisture  Monitoring Motor state |
| FR-2 | User select mode | Confirmation system mode Auto/Manual |
| FR-3 | User Controls | Change the motor state ON/OFF |

**Non-functional Requirements:**

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

| **FR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| NFR-1 | **Usability** | Simple and easy to use, 24x7 access through Web/Mobile Application |
| NFR-2 | **Security** | cloud integrations |
| NFR-3 | **Reliability** | IBM Watson IoT platform has session timeout, Username & Password authentication |
| NFR-4 | **Performance** | Lightweight Application, 200 requests/second |
| NFR-5 | **Availability** | 24x7 in IBM Cloud server |
| NFR-6 | **Scalability** | 2 – tier, Micro-services |