**Project Design Phase-II**

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

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| Date | 16October 2022 |
| Team ID | PNT2022TMID11481 |
| Project Name | SmartFarmer - IoT Enabled Smart Farming Application |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration/Login | Phone Application And Wifi Module. |
| FR-2 | User Permission | User permission for irrigation via Mobile Application And software Web UI Application |
| FR-3 | Log in / App | Check Id / username And Check Roles access. |
| FR-4 | Check whether details | Temperature and Humidity details |
| FR-5 | Log out | Exit |

**Non-functional Requirements:**

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

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| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | User-friendly Interface and learn to ability, efficiency in use, remember ability, lack of errors in operation |
| 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. Accuracy of data |
| NFR-4 | **Performance** | The process of the usage is easy and simple which allows to monitor and control with application’s stability and accuracy |
| NFR-5 | **Availability** | Automatic adjustment of farming equipment made possible by linking information like crops and weather |
| NFR-6 | **Scalability** | we can upgrade the Smart farming Application automatic real time decision -making is feasible in an environment composed of dozens of thousand |