**Project Design Phase-II**

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

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| Date | 15 October 2022 |
| Team ID | PNT2022TMID30018 |
| Project Name | *Project-* IoT Based Smart Crop Protection System for Agriculture |
| 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 Sensor | Dozens of sensors are available today, but the five most important sensors for the maintenance professional are **vibration, gas, temperature, humidity, and security sensors**. |
| FR-2 | User Registration | Registration through Form  Registration through Gmail  Registration through Linked IN |
| FR-3 | User Confirmation | Confirmation via Email Confirmation via OTP |

**Non-functional Requirements:**

* **F**ollowing are the non-functional requirements of the proposed solution.

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | Indicates how effectively and easy users can learn and use a systems. |
| NFR-2 | **Security** | Assures all the data inside the system or its part will be protected against malware attacks or unauthorized access. |
| NFR-3 | **Reliability** | Specifies the probability of the software performing without failure for a specific number of users or amount of time. |
| NFR-4 | **Performance** | Deals with the measure of the systems response time under different load conditions. |
| NFR-5 | **Availability** | Describes how likely the system is accessible for a user at a given point in a time. |
| NFR-6 | **Scalability** | Assesses the highest workloads under which the system will still meet the performance requirements. |