**Project Design Phase-II**

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

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID50299 |
| Project Name | Project - 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 | Registration through Form  Registration through Gmail |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 | Login to system | Check credentials check roles for Access |
| FR-4 | Manage modules | Manage system admins  Manage user permission  Manage roles of users |
| FR-5 | Check whether condition | Temperature details  Humidity details |
| FR-6 | Logout | 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** | Usability includes easy learning ability, remember ability, efficiency in use, lack of errors in operation and subjective pleasures |
| NFR-2 | **Security** | Sensitive and private data must be protected from the year production until the decision making and storage stages |
| NFR-3 | **Reliability** | The stored protection activities a better trade of between costs and reliability. The model uses dedicate and share the protections schemes to avoid farm service outages |
| NFR-4 | **Performance** | The idea of implementing in the credit sensor with sensing and environment or ambient parameters in farming will be more efficient for overall monitoring |
| NFR-5 | **Availability** | Automatic adjustment of farming requirement made possible by linking information like crops/weather and equipment to auto adjust temperature, humidity etc.. |
| NFR-6 | **Scalability** | Scalability is a major concern for IoT platform. It has shown that different agriculture choice of IoT platform affect systems scalability and that automatically real time decision making is feasible in an environment composed of dozens of thousands |