**Project Design Phase - II**

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

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| Date | 13 October 2022 |
| Team ID | PNT2022TMID09965 |
| Project Name | SMART FARMER – 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.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | Usability includes easy 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.  The model uses dedicated and shared protection schemes to avoid farm service outages. |

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration through Gmail |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | Log in to system | Check Credentials Check Roles of Access. |
| FR-4 | Manage Modules | Manage System Admins  Manage Roles of User  Manage User permission |
| FR-5 | Check whether details | Temperature details Humidity details |
| FR-6 | Log out | Exit |

**Non-functional Requirements:**

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

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| NFR-4 | **Performance** | the idea of implementing integrated sensors with sensing soil and environmental or ambient parameters  in farming will be more efficient for overall monitoring. |
| NFR-5 | **Availability** | Automatic adjustment of farming equipment 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 platforms. It has shown that different architectural choices of IoT platforms affect system scalability and that automatic real time decision-making is feasible in an environment composed of dozens of thousand. |