**Project Design Phase-II**

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

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| Date | 21 October 2022 |
| Team ID | PNT2022TMID02439 |
| Project Name | Project – Smart Farmer-IOT Enabled Smart Farming Application system |
| 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  Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 | Sensor function for framing system | Measure the temperature and Humidity  Measure the soil Monitoring check the crop diseases |
| 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 | Data Management | Manage the data of weather conditions  Manage the data of crop conditions  Manage the data of live stock conditions |

**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 learn ability, efficiency in use,remember ability, lack of errors in operation and subjective pleasure. |
| NFR-2 | **Security** | All the details about the user are protected from  unauthorized access.  Detection and identification of any misfunctions of sensors |
| NFR-3 | **Reliability** | The shared protection achieves a better trade-off between costs and reliability.  The model uses dedicated and shared protectionschemes to avoid farm service outages. |
| 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** | This app is available for all platform |
| NFR-6 | **Scalability** | Scalability refers to the ability to increase available resources and system capability without the need to go through a major system redesign or implementation |