# Project Design Phase - II

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

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| Date | NOV 2 2022 |
| Team ID | PNT2022TMID20520 |
| Project Name | 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 | EMAIL:  Enter email address PASSWORD:  Enter password |
| FR-2 | User Confirmation | Confirmation via Email. Thanks for your email. |
| FR-3 | Log in to system | Serve authenticated content |
| FR-4 | Manage Modules | Manage System Admins Manage Roles of User Manage User permission |
| FR-5 | Check whether condition | Temperature monitoring status  Humidity monitoring  Status |
| FR-6 | 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** | Usability includes easy understanding and 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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| NFR-4 | **Performance** | The idea of implementing integrated sensors with sensing soil and environmental parameters in farming will be more efficient. |
| 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, real time decision- making is feasible in an environment composed of dozens of thousand. |