**Project Design Phase-II**

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

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| Date | 12 October 2022 |
| Team ID | PNT2022TMID44390 |
| Project Name | Project - 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.** | **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 | User Profile | Log in  Access the Profile |
| FR-4 | Analyze | Data from smart sensors can be analyzed for predictive analysis and automated decision-making. |
| FR-5 | Recommend | Based on the farming the software recommend the automated irrigation practices. |

**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** | End users can monitor and control their connected farm using IOT applications on their smartphones or tablets. |
| NFR-2 | **Security** | The software keeps the users information more securely. |
| NFR-3 | **Reliability** | The smart farm,embedded with IOT systems,could be called a connected farm,which can support a wide range of devices from diverse agricultural device manufactures. |
| NFR-4 | **Performance** | It is a user friendly software and have high performance. |
| NFR-5 | **Availability** | Available for every users,visible for all users and farmer. |
| NFR-6 | **Scalability** | The proposed precision farming structure allows the implementation of a flexible methodology that can be adopted to different types of crops. |