Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Date | 12 Oct 2022 |
| Team ID | PNT2022TMID02102 |
| 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 Linked In |
| 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 recommends 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 user’s 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 user, 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. |