Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Date | 14 October 2022 |
| Team ID | PNT2022TMID01408 |
| Project Name | Smart farming -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 | System login | Check authorization  Check access |
| FR-4 | Manage schedule | Manage system admins  Manage user consent  Manage user |
| FR-5 | Check details | Moist details  Temperature details |
| 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 specify the quality attributes of system. This requirement can be the speed with which a system must perform to satisfy user expectations |
| NFR-2 | **Security** | Sensitive and individual data must be secured by their proffering until the decision-making storing stages |
| NFR-3 | **Reliability** | This focused on the promise dataset is used. The model uses diligence and shared protection to neglect farm service |
| NFR-4 | **Performance** | It requires low power consumption and low data transmission rates. This idea of implementation combined sensors with soil and environmental parameters. |
| NFR-5 | **Availability** | These quality characteristics considered are cost, sensitivity, design complexity, storage capacity, development process, response criteria and environmental impact and farming equipment made possible like crops, weather , humidity, etc |
| NFR-6 | **Scalability** | It is the major concern for IoT platform. It has different choices of IOT platform affect system and real time accountability in an environment. |