# Project Design Phase-II

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

|  |  |
| --- | --- |
| Date | 15 October 2022 |
| Team ID | PNT2022TMID32046 |
| Project Name | SMARTFARMER – IoT ENABLED SMART FARMING APPLICATION |
| Maximum Marks | 4 Marks |

# Functional Requirements:

Following are the functional requirements of the proposed solution.

|  |  |  |
| --- | --- | --- |
| **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 | Login | Login via Username and Password Login via Google |
| FR-4 | Password reset | Reset password via email  Reset password via Phone Number |
| FR-5 | Password Change | Change password via email  Change password via Phone Number |
| FR-6 | Settings | Change settings for the convenience |

# Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | Application is easy to use with better user experience and the controls given with that application. |
| NFR-2 | **Security** | The user can register or login through their mail id and password. The security attacks could not be done until the user share his/her login credentials to someone. |
| NFR-3 | **Reliability** | The data are stored in the trusted cloud storage and it can be kept confidential. The user and the developer are able to access the data stored in cloud storage. |
| NFR-4 | **Performance** | The user can control and analyze the data about their field or farm through application given with many features. |
| NFR-5 | **Availability** | The user can easily access the analyzed data from the sensors connected with IoT devices which placed in the farming land and the sensor  analyzed data are stored in a cloud storage for future references. |
| NFR-6 | **Scalability** | The application features are upgraded randomly for easy access and better user experience. |