

**Project Design Phase-II**  
**Solution Requirements (Functional & Non-functional)**

Date	20 November 2022
Team ID	PNT2022TMID43644
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	<b>Usability</b>	Application is easy to use with better user experience and the controls given with that application.
NFR-2	<b>Security</b>	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	<b>Reliability</b>	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	<b>Performance</b>	The user can control and analyse the data about their field or farm through application given with many features.
NFR-5	<b>Availability</b>	The user can easily access the analysed data from the sensors connected with IoT devices which placed in the farming land and the sensor analysed data are stored in a cloud storage for future references.
NFR-6	<b>Scalability</b>	The application features are upgraded randomly for easy access and better user experience.