

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

Date	23 October 2022
Team ID	PNT2022TMID04755
Project Name	Smart Farmer – 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 gmail/LinkedIn Mobile Application Via wifi
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Authentication	Using of Biometrics or PIN Authentication to perform some sensitive actions on the app.
FR-4	Cloud Database	Database service on cloud
FR-5	Cloud Connectivity	Connecting Hardware to cloud
FR-6	Exporting Reports	Allowing users to export their yearly, monthly, weekly status.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Dashboard must be simple, clean and customizable.
NFR-2	<b>Security</b>	Authentication - User can have his/her own private dashboard to have secured access
NFR-3	<b>Reliability</b>	High quality sensor used , so we can get high precision and accurate value for long time.
NFR-4	<b>Performance</b>	Using efficient sensors and writing efficient code can improve the performance

NFR-5	<b>Availability</b>	The application can used to control and monitor from anywhere at any time according to the comfortability of the farmer.
NFR-6	<b>Scalability</b>	In future we can upgrade the application which can be used for various types of crops in field.