

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

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Team ID	PNT2022TMID43644
Project Name	Project - SmartFarmer-IOT Enabled Smart Farming Application

**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	User Login	Login with Email Id and password Check Credentials.
FR-4	Sensor Data	To display all the data from different sensors like temperature sensor, humidity sensor etc.
FR-5	Weather Info	To show the climatic weather conditions of the location in real-time and other data using a weather API.
FR-6	Calendar and Notes	Add information about the plants and add remainder in the calendar.
FR-7	Alerts and Notification	Checks for any abnormalities and alerts the user.
FR-8	Logout	After checking all the details, user can exit.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Easy and effective to use Easy to learn and clean UI
NFR-2	<b>Security</b>	All the details are protected from unauthorized access. Detection and identification of any malfunction of sensors.
NFR-3	<b>Reliability</b>	It gives the accurate results.
NFR-4	<b>Performance</b>	It requires low power consumption and low data transmission rates.

NFR-5	<b>Availability</b>	With minimum internet connectivity it is accessible all time and all the data are synced to the cloud.
NFR-6	<b>Scalability</b>	It supports third party sensors and can be easily scalable for large scale farming.