

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

Date	7.11.2022
Team ID	PNT2022TMID01185
Project Name	Smart Farmer - IOT Enabled Smart Farming Application
Maximum Marks	4 Marks

TEAM MEMBERS:

1. THANOJ K R
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Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
1	User Registration	Registration Through Gmail
2	User Confirmation	Confirmation Via Email Confirmation Via OTP
3	User Login	Login with Email Id and Password
4	Forgot Password	Login with Email Confirmation Of OTP from message or email
5	Query Form	send the problems and issues faced by user when using the application
6	Weather	To find the climate information of a particular area
7	Agro Note	To list of agriculture related information like how to plant, how much litres of water that plant need in a day ,adding manure and fertilizers, irrigation, harvesting and storage etc.
8	Sensors	To show various data from different sensors like Optical Sensors, Electrochemical Sensors For Soil Nutrient Detection, Mechanical Soil Sensors ,Dielectric Soil Moisture Sensors ,Location Sensors, Airflow Sensors ,Electronic Sensors.
9	Database Management	To show various agriculture related data are stored

10	Exit	After user checked every information, user can exit The application
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Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
1	Usability	Effective and Easy to Use
2	Security	The process of protecting data From Unauthorized Access
3	Reliability	Consistency and Accuracy and the shared protection achieves a better trade-off between costs and reliability
4	Performance	Measured and estimate the performance of The Productivity
5	Availability	24/7 services