

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

Date	03 October 2022
Team ID	Id-PNT2022TMID47947
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 Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User control	monitor and track weather conditions in their area and receive alerts about changes in weather conditions
FR-4	User tracking	view information about the current status of their crops receive alerts about changes in the status of their crops.
FR-5	Crop status	track and view information about their irrigation system receive alerts about changes in their irrigation system
FR-6	User login	The application shall provide authentication for users to login and access the application.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The application should be easy to use and should have a user-friendly interface.
NFR-2	Security	The application shall provide a mechanism for farmers to securely receive data from the application.
NFR-3	Reliability	The application should be able to analyse the data and provide useful insights to the farmers.
NFR-4	Performance	The application should be able to predict the yield of crops and help farmers in taking necessary actions.
NFR-5	Availability	The application should be able to provide information about the weather, market prices, etc. to farmers.
NFR-6	Scalability	The application should be able to collect data from various sensors and devices installed on the farm.