

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

Date	15 October 2022
Team ID	PNT2022TMID49537
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 collects the real time data	<ul style="list-style-type: none">The user collects the real time data to identify the exact weather condition.
FR-2	Sensors fixed in land	<ul style="list-style-type: none">The data is collected from the sensors.
FR-3	Store the Data	<ul style="list-style-type: none">The data stored in the cloud.
FR-4	Notification	<ul style="list-style-type: none">Once the motion or drought is detected it is notified through the message and water flow.

Non-functional Requirements:

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

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	<ul style="list-style-type: none">Fertile land can only be used for agricultural purposes. To use it for residential, commercial or industrial purposes.
NFR-2	Security	<ul style="list-style-type: none">Agricultural security areas are a tool for protecting our farms and farmland from non agricultural uses. These security areas are reevaluated every seven years.
NFR-3	Reliability	<ul style="list-style-type: none">The policymakers have to use proxy indicators like production estimates and prices to arrive at average incomes for the base year.
NFR-4	Performance	<ul style="list-style-type: none">The Performance of the Indian economy is dependent upon the growth of the agricultural sector. In 2021 India will be the world's second largest food producer.
NFR-5	Availability	<ul style="list-style-type: none">The application gives alerts and live feeds 24/7.
NFR-6	Scalability	<ul style="list-style-type: none">Multiple cropping can increase production and income scalability can be measured by increased crop diversity, reduced use of inorganic fertilizers and pesticides.