

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

Date	03 October 2022
Team ID	PNT2022TMID34035
Project Name	Project – smart former
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	Monitoring climate change	The system can be implemented directly in field to alert climate change
FR-2	Green house automation	In order to provide real time monitoring control crop growth
FR-3	Crop management	It sowing of seeds ,continues with crop growth ,crop health and soil health
FR-4	Precision farming	farming management concept based on observing, measuring and responding to inter and intra-field variability in crops
FR-5	Agricultural drones	Agricultural drones provide information on crop growth stages, crop health, and soil variations
FR-6	Automating the irrigation system	the use of a device to operate irrigation structures so the change of flow of water from bays can occur in the absence of the irrigator

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Usable systems are straightforward to use by as many people as possible, whether this is end-users of a website, or administrators and content editors working with a back-end system.
NFR-2	<b>Security</b>	Security is a non-functional requirement assuring all data inside the system its part will be protected against malware attacks or unauthorized access.
NFR-3	<b>Reliability</b>	Reliability specifies how likely the system its element would run without a failure for a given period of time under predefined conditions.
NFR-4	<b>Performance</b>	In other words, a non-functional requirement will describe how a system should behave and what limits there are on its functionality.

NFR-5	<b>Availability</b>	Availability describes how likely the system is accessible to a user at a given point in time.
NFR-6	<b>Scalability</b>	Scalability assesses the highest workloads under which the system will still meet the performance requirements.