

**VSB Engineering College, Karur-639111**  
**IBM NALAYA THIRAN**  
**Project Design Phase-II**  
**Solution Requirements (Functional & Non-functional)**

Date	15 October 2022
Team ID	PNT2022TMID33557
Project Name	Project – 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	IoT devices	Sensors and Wifi module.
FR-2	Software	Web UI, Node-red, IBM Watson, MIT app
FR-3	Aurdino	connectors

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Time consumability is less, Productivity is high.
NFR-2	<b>Security</b>	It has low level of security features due to integration of sensor data.
NFR-3	<b>Reliability</b>	Accuracy of data and hence it is Reliable.
NFR-4	<b>Performance</b>	Performance is high and highly productive.
NFR-5	<b>Availability</b>	With permitted network connectivity the application is accessible
NFR-6	<b>Scalability</b>	It is perfectly scalable many new constraints can be added