

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

Date	02 November 2022
Team ID	PNT2022TMID26085
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	<b>SENSORS</b> -Humidity sensor, Soil moisture sensor, Temperature sensor. <b>MODULE</b> -Wi-Fi module.
FR-2	Software	MIT App inventor, Weather API key, Node-RED, IBM IoT cloud.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	The application is user friendly. Using the resources precisely.
NFR-2	<b>Security</b>	Security will be low because of the usage of sensors.
NFR-3	<b>Reliability</b>	The sensors will perform accurately in any condition. Since it is reliable.
NFR-4	<b>Performance</b>	The productivity will be high and the performance is in top level.
NFR-5	<b>Availability</b>	The network will be accessible using the smart phone application.
NFR-6	<b>Scalability</b>	Scalability is possible. New technology and sensors can be added in future.