

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

|               |  |
|---------------|--|
| Team ID       | PNT2022TMID46860   |
| 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 |

**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               |