

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

| | |
|--------------|---|
| Date | 30 October 2022 |
| TeamID | PNT2022TMID46022 |
| Project Name | Project – Smart farmer-IoT enabled Smart farming application. |
| MaximumMarks | 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 | Usability | Time consumability is less, Productivity is high. |
| NFR-2 | Security | It has low level of security features due to integration of sensor data. |
| NFR-3 | Reliability | Accuracy of data and hence it is Reliable. |
| NFR-4 | Performance | Performance is high and highly productive. |
| NFR-5 | Availability | With permitted network connectivity the application is accessible |
| NFR-6 | Scalability | It is perfectly scalable many new constraints can be added |