# PROJECT DESIGN PHASE-2

## SOLUTION REQUIREMENTS

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|---|---|
| DATE | 31 OCTOBER 2022 |
| TEAM ID | PNT2022TMID52099 |
| PROJECT NAME | IoT based smart crop protection system for agriculture |
| Maximum marks | 4 marks |

## FUNCTIONAL REQUIREMENTS:

| FR-NO | FUNCTIONAL REQUIREMENTS | SUB-REQUIREMENTS |
|---|---|---|
| FR-1 | Fertilizing frame service | Documentation requirements and assisting information |
| FR-2 | Economical service | Assisting information |
| FR-3 | Technology assessment service | Selecting fertilizing features |
| FR-4 | Feature assessment service | Updated technical information and machinery selection |
| FR-5 | Information acquisition service | Assisting information about fertilizing rules |
| FR-6 | Farm and field customizing service | Potential data acquisition service |
| FR-7 | Field inspection | Spatial field information |
| FR-8 | Field observation service | Analysed risks |
| FR-9 | Assisting remote controlling | Inspecting and controlling fertilizing task |
| FR-10 | Assisting "operational performance service" | Economical analysis of current technology |

## NON FUNCTIONAL REQUIREMENTS:

| NRF.NO | NON FUNCTIONAL REQUIREMENTS | DESCRIPTION |
|---|---|---|
| NRF-1 | Usability | To use new technologies and increase the quantity and quality |
| NRF-2 | Security | Protect the field from animals. |

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| NRF-3 | Reliability | Increasing the demand for food with minimum resources |
| NRF-4 | Performance | Maintain good yield and provide sustainable quantity |
| NRF-5 | Availability | Agricultural fences are quite an effective wild animal protection |
| NRF-6 | Scalability | The develop system will not harmful and injurious to animals as well as human beings. |