

Smart farming-IOT Enabled Smart Farming Application

PROJECT DESIGN PHASE -1

PROPOSED SOLUTION TEMPLATE

| | |
|---------------|---|
| Date | 24 September 2022 |
| Team ID | PNT2022TMID18981 |
| Project Name | Smart farming-IOT Enabled Smart Farming Application |
| Maximum Marks | 2 Marks |

Proposed Solution :

Smart Farming solutions provide an integrated IOT platform in agriculture that allows farmers to leverage sensor , smart gateways and monitoring systems to collect information , control various parameters on their farms and analyse real-time data in order to make informed decisions.

| S.NO | PARAMETER | DESCRIPTION |
|------|-------------------|---|
| 1. | Problem Statement | To provide efficient decision support system using wireless sensor network which handle different activities of farm and gives useful information related to farm field to farmer |

| | | |
|----|----------------------|--|
| 2. | Solution description | Smart Farming solutions provide an integrated IOT platform in agriculture that allows farmers to leverage sensor , smart gateways and monitoring systems to collect information , control various parameters on their farms and analyse real-time data in order to make informed decisions |
| 3. | Novelty/Uniqueness | It is based on four domains namely monitoring ,control ,prediction and logic |

| | | |
|-----|-------------------------|--|
| 4. | Social Impact | <ul style="list-style-type: none"> • Conservation of water • Better crop yield • Pollution prevention • Time efficiency ,accurate diagnosis of nutrient deficiency |
| 5 . | Business Model | Smart farming which involves the application of sensor and automated irrigation practices can help monitor land , temperature , soil moisture |
| 6. | Scalability of Solution | Using of number of sensor and the actuators enables us timely analysis |