

# **SMARTFARMER-IOT ENABLED** **SMART FARMING APPLICATION**

**TEAM ID: PNT2022TMID23451**

**TEAM MEMBERS:**

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**BACHELOR OF ENGINEERING IN ELECTRONICS**  
**AND COMMUNICATION ENGINEERING**

**Project Design Phase-I**  
**Proposed Solution Template**

|               |   |
|---------------|---|
| Date          | 19 September 2022   |
| Team ID       | PNT2022TMID23451  |
| Project Name  | Project – SmartFarmer - IoT Enabled Smart Farming Application |
| Maximum Marks | 2 Marks   |

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

| S.No. | Parameter                                | Description  |
|-------|--|--|
| 1.    | Problem Statement (Problem to be solved) | SmartFarmer - IoT Enabled Smart Farming Application.   |
| 2.    | Idea / Solution description              | Smart Farming has enabled farmers to reduce waste and enhance productivity with the help of sensors (light, humidity, temperature, soil moisture, etc.) and automation of irrigation systems. Further with the help of these sensors, farmers can monitor the field conditions from anywhere. Internet of Things based Advanced Farming is highly efficient when compared with the conventional approach.<br>We use a web/mobile application to help the farmer to decide whether to water the crop or postpone it by monitoring the sensor parameters and controlling the motor pumps even when the farmer is far from the field. |
| 3.    | Novelty / Uniqueness                     | The approach of our system includes : <ul style="list-style-type: none"><li>➤ Temperature parameters measurement</li><li>➤ Mobile Application to alert the farmer.</li><li>➤ Sensor based smart irrigation tools.</li><li>➤ Predict the condition of crops instantaneously.</li></ul>  |
| 4.    | Social Impact / Customer Satisfaction    | In our project, the Internet of Things (IOT) is used to collect data and communicate through the internet. We hope that our project will be beneficial enough to be implemented in agricultural industries across India, saving the crops from dryness due to lack of proper irrigation.   |
| 5.    | Business Model (Revenue Model)           | A monthly subscription is charged to farmers for prediction and suggesting the irrigation timing based on sensors parameters like temperature, humidity, soil moisture.  |
| 6.    | Scalability of the Solution              | Including sensors to monitor moisture, humidity, temperature and controlling the motor pumps for watering the crops from the mobile application.   |