

## **PNT2022TMID07016 – IDEA 1**

### **SMART FARMER - IoT Enabled Smart Farming Application**

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#### **PROBLEM STATEMENT:**

- IoT-based agriculture system helps the farmer in monitoring different parameters of his field like soil moisture, temperature, and humidity using some sensors.
- Farmers can monitor all the sensor parameters by using a web or mobile application even if the farmer is not near his field. Watering the crop is one of the important tasks for the farmers.
- They can make the decision whether to water the crop or postpone it by monitoring the sensor parameters and controlling the motor pumps from the mobile application itself.

#### **SOLUTION:**

1. The sensors to sense the soil moisture, humidity and temperature should be placed in the field
2. The readings from the sensors are updated to the cloud storage.
3. The readings can be monitored using the mobile application.
4. User can analyse the situation and the data of the sensors
5. Based on the analysis, user can made decision whether to irrigate the field or not using the mobile application itself.
6. And from the same user can stop irrigating the field by analysing the sensor values.