

SMARTFARMER - IOT ENABLED SMART FARMING APPLICATION

Date	19 September 2022
Team ID	PNT2022TMID43471
Project Name	Project – IOT enabled smart farming application
Maximum Marks	4 Marks

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1. <https://ieeexplore.ieee.org/document/9432085>

IoT Enabled Smart Farming and Irrigation System

Pros:

The system consists of three sensors which sense the values of humidity, moisture and temperature of plants. If any of the values decreases the motor automatically turns on the water for plants. This is done using Arduino board, voltage regulator and relay which controls the motor. WIFI module is used to inform the user about the exact field condition.

Cons:

The system only monitor the soil moisture level.it doesn't monitor the nutrients level.

2. <https://ijirt.org/Article?manuscript=151824>

Smart farming using IOT

Pros:

Smart Agriculture can forecast weather data, switching ON the pump motor and switch ON the bulb for artificial light due to less light intensity, for farms acknowledging the dampness of soil of moisture levels. The IR sensor detects the pest and humans by their temperature; the sensors are interfaced to process module Arduino-UNO. The Smart agriculture system can be operated from anywhere with the help of networking technology.

Cons:

The system only monitor the soil moisture level.it doesn't monitor the nutrients level.

3. <https://www.sciencedirect.com/science/article/pii/S1877050919317168>

Smart Farming using IoT, a solution for optimally monitoring farming conditions

Pros:

This projet using humidity, temperature, soil moisture sensors to calculate the corps state.

Cons:

The system only monitor the soil moisture level.it doesn't monitor the nutrients level.

4. https://wwjmr.com/upload/iot-enabled-smart-farming-using-android-phone_1571128323.pdf

IoT Enabled Smart Farming Using Android Phone

Pros:

This project explains about an IoT enabled Smart Farming using Android Phone. Internet of Things is described as Interconnection of physical devices through Internet. The physical devices embedded with sensors enables the interaction with physical and logical world in the

concept of IoT. The proposed system is based on IoT that uses real time data to monitor and control the irrigation system parameters using Smartphone with Internet.

Cons:

The system only monitor the soil moisture level.it doesn't monitor the nutrients level.