

Automated Agriculture Monitoring System Integrated With Smart Lights

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Problem Statement

Farmer overwork themselves in fields, put a lot of effort tending to their crops to make sure the nation doesn't go hungry.

Solution

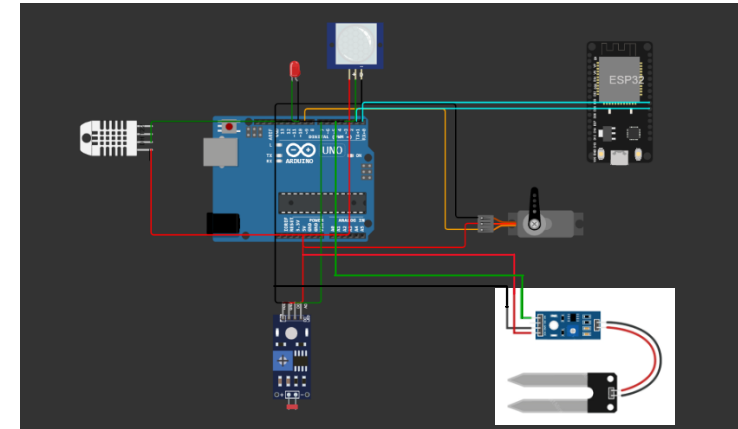
Using IoT in agricultural fields to remotely extract and process data to make sure the farmer needs to intervene only when the situation requires their presence.

Tools Used

- Arduino Uno
- Sensors
- LED's
- ThingSpeak Cloud Service

Working

- Checking soil moisture levels to supply water whenever needed with an automated sluice gate.
- Monitoring temperature and humidity levels.
- Creating an automated lighting system to conserve electricity.



Applications

To help farmers manage their farms effectively from their home, minimising the necessity of their presence on field.

