

SMART AGRICULTURE SYSTEM WITH IOT TECHNOLOGY USING LORA

Batch Number : 8

Review : Zeroth review

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PROJECT DOMAIN: EMBEDDED-IOT

ABSTRACT

LoRa (short for long-range) refers to the RF modulation under the low-power wide area networks (LPWANs) that offers the potential of smart solution under various environment conditions using the long-range communication capability. The LoRa transceiver is used to allow bi-directional communications between multiple nodes without using the internet. LoRa transceiver, LoRa(slave) which is used to collect the data from the sensors and transmit the received signal to the LoRa(master), as per the received data actuators are controlled automatically by microcontroller. The function of the actuators is to watering plants, turning ON/OFF motor's and Valve. All the collected data will be pushed to the internet with help of ESP(WIFI). GSM is used to send the device status through SMS, also users can monitor the things over internet through mobile/web app.

Project Guide

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