

Project summary:

The Main Objective Of this Project Is to develop a Smart agriculture System that uses advantages of cutting-edge technologies such as Arduino, IOT and Wireless Sensor Network Using IoT & IBM Cloud Service.

Node Red Is to Solve the Basic Problems of farmers working in the farm lands are solely dependent on the rains and bore wells for irrigation of their land. Monitoring environmental conditions is the major factor to improve yield of the efficient crops.

This will help us to develop a system which can monitor temperature, humidity, moisture and even the movement of animals which may destroy the crops in agricultural field through sensors.

Project Requirement:

Zoho Writer

GitHub

IBM Watson Cloud

Python

Project Deliverables:

The Purpose of This Project is to improve the entire Agriculture system by monitoring the field in real-time. This will help bridge the gap between production and quality and quantity yield. Data Ingested by obtaining and importing information from the multiple sensors for real time use or storage in a database ensures swift action and less damage to the crops. Because of its energy autonomy and low cost, the system has the potential to be useful in water limited geographically isolated areas.

Challenges:

Working on Node Red

Configure the Node to Display Weather Parameters

Project schedule:

Planning and Kick-off: 1 day

Exploring IBM platform:3 days

Exploring IOT Watson platform:4 days

Building web app:4 days

Testing the project: 3 days

Finalizing the project:3 days

Total Time: 18 Days