

PROJECT KICKOFF

PROJECT SCOPE

Project Title:- [Smart Agriculture Based on IOT](#)

✓ **Follow the below mentioned STEPS to successfully complete the Project:**

- ❖ Project Planning And Kickoff.
- ❖ Explore IBM Cloud Platform.
- ❖ Connect The IOT Simulator To Watson IOT Platform.
- ❖ Configure The NODERED To Get The Data From IBM IOT Platform And Open Weather API.
- ❖ Building A Web App.
- ❖ Configure Your Device To Receive The Data From The Web Application And Control Your Motors.

Project Summary:

- Here, the project main theme is to make the FARMER'S work easier and simpler. This project is going to help him control his motor operations [ON/OFF] right from his home through a Mobile Phone!!!
- With the help of Weather API a person could easily be aware of all the weather conditions and can easily monitor his farm. He can checkout the things like Temperature, Humidity, Soil Moisture, etc., from his place.

- Ultimately, The Farmer can analyse all the circumstances and based on the realated parameters he can water his crop by controlling the motors using the Mobile Application even if he is not present near to the crop.
- For making this possible, here we are making use of Online IOT Simulator for extracting all the temperature,humidity and soil moisture values.
- We are having a particular API named Weather API [Application Programming Interface] with which farmers can view all the conditions of the weather at a particular time in a desired location.

Technical Requirements:

- ✓ IoT Simulator Sensor

Software Requirements:

- ✓ Python
- ✓ NodeRed
- ✓ IBM watson IoT Platform
- ✓ IBM Cloud
- ✓ Open Weather API

Project Deliverables:

A Mobile Application for FARMERS where he can

- ✓ Monitor Temperature,Humidity and Soil Moisture along with Weather Forecasting details.
- ✓ Controlling the MOTOR for watering purpose.

Project Team:

D.Nikitha

Project Schedule:

19-05-2020 to 19-06-2020