

# **Project scope**

## **Project summary**

Smart Agriculture System based on IoT can monitor soil moisture and climatic conditions like temperature and humidity to grow and yield a good crop.

The farmer can also get real-time weather forecasting data by using external platforms like Open Weather API.

Farmer is provided a mobile app using which he can monitor the temperature, humidity, and soil moisture parameters along with weather forecasting details.

Based on all the parameters he can water his crop by controlling the motors using the mobile application.

Even if the farmer is not present near his crop he can water his crop by controlling the motors using the mobile application from anywhere.

Here we are using the Online IOT simulator for getting the temperature, humidity and soil moisture values

## **Project Requirements-**

1. Functional Requirements: Basic working knowledge of IoT, Understanding of programming
2. Technical Requirements: Knowledge about IBM Cloud, IBM Watson IOT Platform, Node-RED, Python Programming Language, and Github Version Control System
3. Software Requirements: Web Browser, Github Version Control System, Python IDE, Node-RED software.

## **Project Deliverables**

Creation a virtual app using NODERED platform and display various parameters the temperature, humidity and soil moisture parameters along with weather forecasting details.

## **Project team**

Venkatesh Mahto

## **Project schedule**

23-05-2020 to 19-06-2020