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.

Project Conclusion-

Smart Agriculture System based on IoT that can get sensor data, weather data from Open Weather API and can control the motors