Project Summary

Smart Agriculture System Based On IoT   is a project that focuses upon monitoring various parameters such as soil moisture,climatic conditions in order to grow and yield a good crop.The project is developed mainly on the Agriculture Sector and helps a lot of farmers all over the country.Farmer is provided a mobile app using which he can monitor various parameters 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.The farmer can also get the real time weather forecasting data by using external platforms like Open Weather API.We are using the Online IoT simulator for getting the Temperature,Humidity and Soil Moisture values.

Project Requirements

IBM Cloud Platform,IBM Watson IOT platform,NODERED software,Python IDE software,Open Weather API platform

Functional Requirements

* **Business Rules**
* **Transaction corrections, adjustments, and cancellations**
* **Administrative functions**
* **Authentication**
* **Authorization levels**
* **Reporting Requirements**
* **Historical Data**

Technical Requirements

Windows64 bit /Linux operating System

Python programming language

Software Requirements

Nodered software,Python IDE 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

Abhishek Dhumvad

Project Schedule

5/05/2020 to 4/6/2020