PROJECT SCOPE

TEAM ID : PNT2022TMID30018

Project Title: Smart Agricultural System Based On IoT

Project Summary

Smart Agriculture System based on IoT can monitor soil moisture and climatic conditions to grow and yield a good crop. The farmer can also get the 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.

Technical Requirements:

- IoT Simulator

Software Requirements:

- Python
- NodeRed
- IBM Watson IoT Platform
- Open Weather API

Project Deliverables:

A Web App for farmers where he can:

- monitor temperature, humidity and soil moisture along with weather forecasting details.
- control motor for watering the crop.

Project Team:

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Project schedule:

01-09-2022 to 19-11-2022