PROJECT SCOPE

PROJECT NAME: **Smart Agriculture Management using IOT-SB42394**

PROJECT MANAGER **Shakthivel. R**

PROJECT SUMMARY

IN SCOPE

1. Create a weather forecasting data by using an external platform like open weather API.
2. Create a web app to monitor parameters like temperature, humidity and soil moisture.
3. Controlling a motor using the web application from anywhere.
4. Create an online IOT Simulator for getting the temperature, humidity and soil moisture.

OUT SCOPE

1. To create a Chat bot for knowing the parameters like temperature, humidity etc. And to control the motor using a chat bot.
2. To add other parameters like alkalinity, potassium, sulphur etc to the web application

PROJECT REQUIREMENT

1. IOT Application development
2. IOT cloud platform

FUNCTIONAL REQUIREMENT

1. Developing UI of the Web application
2. Controlling the motor through web application

TECHNICAL REQUIREMENT

1. Reading the weather data from open weather API
2. Simulating the sensor values by using IOT simulator
3. Hosting the web app using NODE RED
4. Sending the Output signal to the motor using Web application

PROJECT DELIVERABLE

1. Creating an account in IBM Watson and installing Python IDE.
2. Connecting IOT Simulator to Watson IOT platform
3. Configure the NODE RED to get the data from IBM IOT platform and open weather platform
4. Building and configuring a Web application

PROJECT SCHEDULE

TASK	EXPECTED DATE OF COMPLETION
Exploring IBM cloud platform	June 20 – June-24
Connecting IOT simulator to watson IOT platform	June-25 - June -28
Server and send the weather data from weather API	June -29 –July-04
Building Web application and configuring Device	July05 –July09