Project Scope, Schedule, Team & Deliverables

PROJECT TITLE : Smart Agriculture System Based on IOT - SB32160

PROJECT ID : SPS_PRO_101

PROJECT MANAGER : G.Vigneshwaran

Project Summary :

Agriculture is the main backbone of Indian economical growth. The most important barrier that arises in traditional farming is climate change. The number of effects of climate change includes heavy rainfall most intense storm and heat waves, less rainfall etc. due to these the productivity decrease to the major extent. Climate chang also raises the environmental consequences such as the seasonal change in the life cycle of the plant. To boost the productivity and minimize the barrier in agriculture field there is need to use innovative technology and technique called Internet of things.The technological advances in their areas gather increasing momentum and this means that maintaining as the overview.

The most important thingof smart farming are environmental meas urement and water management.The reason is that the environmental and water management affect plant growth.

The highlighting features of this project include smart irrigation with smart control based on real time fied data. monitor the temperature, humidity and soil moisture parameters along with weather forecasting details. And finally the recommendation to farmer for smart agriculture.

Project Requirements:

The Requirements of the projects are follows:

- IBM Cloud Account.
- IBM Watson IOT Platform.
- Online IOT Simulator.
- Node JS.
- Node Red.
- Python 3 IDLE.
- Open Weather API`

Hardwar components:

- Laptop, Computer Desktop.
- Recommended versionWindows.
- Recommended version Mac Os,
- 4GB RAM, X64 Processor.

Functional Requirements :

- IOT Device.
- Motor Device.
- IOT Simulator

These are the Functional requirements.

Technical Requirements :

In this system use IoT Simulator and Open weather API for getting temperature, humidity, pressure because the Open weather API gives the values in Kelvin And It can be easily converted to Celsius and gives the output in degree and alsoeasy to interface.

Project Deliverables:

Start Date Of Project : 15-05-2020

Deliverables Date Of The Project : 10-06-2020

Project Team:

Team : VG

Team head : G.Vigneshwaran

Roles : To Create Smart Agriculture System based on IOT
Can monitor soil moisture and climate conditions
to grow and yield a good crop.

Project Schedule:

- Requirement Gathering
- Feasibility Study
- System Analysis
- Software Design
- Coding Testing
- Integration
- Implementation

THANKING YOU!