

## **Project Kickoff List**

Project Name	Smart Agriculture System Based on IOT.
Project Manager	K Mohammad Habeeb.
Date	25/05/2020
Project Sponser	Smart Bridge.
Scope Of the Project	Building and Web App for Farmers.
Project Budget	1k to 1.5k

## **Project Summary**

Smart Agriculture System based on IOT is a project that is based on the agriculture as farmer plays an major role in agriculture .This project basically helps the farmers in monitoring and controlling the growth of crops.Where this an mobile application where farmer can able to monitor the real time climate condition weather forecasting, temperature , humidity ,soil moisture etc.Even if he is not on the field he can be able to monitor and control all the parameters.

## **Project Requirement**

Its main purpose of the project is to improve the technology in agriculture system by providing an web developed application to the farmers.

The different task of the projects are

- Planning of the project.
- Explore of IBM cloud platform.
- Building a web Application.
- Configuring device to receive data from web application to control motor.

As these are some major milestone of the project to be completed.

## **Functional Requirement**

for the project Smart Agriculture System based on IOT the functional requirements are listed as follows.

- It should monitor weather condition, soil moisture and climatic condition.
- The former can get real time data on weather forecasting by using external platform.
- Based on real time data farmer has flexibility to water crop by using mobile applications.
- Even in absence of farmer mobile applications can be controlled from anywhere.

## **Technical Requirement**

This project has a many feature it is an over all project based on agriculture. Its main objective is to make farmers work in efficient way and to do less hard work. The application is designed in a such a way that it can be accessed by all the farmers. In order to build this application, we are using IBM cloud service, Github where these services can be controlled any where from the world and then building web application at last configuring device to receive the data from web application and to control the motors

## **Software Requirement**

This project uses

- Python IDE
- Github
- IBM Cloud Services
- Slack Channel.

## **Project Deliverables**

Its a mobile based application where farmers can control and monitor the growth of the crops and can be accessed from any where.

The different mile stones are

1. Planning of the project and kickoff list.
2. Explore of IBM cloud services.
3. Building of the Web application.

4. Configuring device to receive data from the web app, and to control the motor  
The total time to build this application based project can be 28-30 days.

### **Project Team**

Its an Individual based project.

### **Project Schedule**

Project Planning and Kickoff list	2 days.
Setup the Developed Environment.	1day.
Explore of IBM Cloud platform.	3days.
Exploring of IBM Watson IOT Service.	2 days
Setup of Node-red,Watson lot with IOT simulator & Open weather API.	2 days.
Building a Web App.	3 days.
Developing Python Code.	3 days.