Project Scope, Schedule, Team and Deliverables

Project Name: Smart Agriculture System Based on IOT

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Team Members

Dhara Karamchandani

Project Description

What do we have today?

The farmers have to be present at their fields whenever it's the time to irrigate their fields and crops. This can be tedious as different crops require different amount of irrigation and moreover, the farmers may have to be present many times a day to irrigate their fields.

Why we need to change?

For the nation to develop agriculturally, the traditional approach should be replaced by new technical advancements. The farmers should be able to enjoy the pleasures offered by technologies, and thus yield better amount and quality of agricultural products.

Project Objectives:

Smart Agriculture System based on IoT should monitor soil moisture and climatic conditions to grow and yield a good crop.

Project Deliverables:

- 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.

Project Schedule

Activity	Date of Completion
Project Planning & Kick-off.	01-07-2020
Explore IBM cloud platform.	01-07-2020
Connect the IOT simulator to Watson IOT platform.	01-07-2020
Node red Configuration	02-07-2020
Build a Web App	13-07-2020
Configure the device to receive data from the web app and control motors.	14-07-2020

Software Requirements

- IBM WATSON CLOUD platform
- IBM IOT platform
- Open Weather API