SMART AGRICULTURE

Juhi Wani

Project Requirements:

- o Knowledge about cloud platform especially IBM Cloud.
- o Knowledge about IBM Watson IOT Platform.
- Current conditions in agriculture in order to optimize IOT solutions.
- Knowing the requirements of the target audience and drafting feasible offerings.

• Technical Requirements

- Access to IBM Cloud and IOT Platform.
- Service in the IBM Platform and devices for use in the Watson Platform.
- Node-Red to create flows and make http requests.

• Software Requirements

- Python code to connect to the IBM Platform and send commands to the device created there.
- OpenWeather api for weather information: both real-time and forecast of the next few hours.
- Node Red to make requests to the api, receive data and send commands and data to the Watson device.
- Node-Red UI
- o Git Hub to share and collaborate with SmartInternz.

Project Deliverables

 An IOT based Web App that shows relevant information related to a farm and provides certain controls like motor on/off.

- A Node-Red flow that allows making of a User Interface for the web app.
- Python code which connects to the IBM device.
- IBM device which receives data and commands from the node red flows and IOT Simulator.

• Project Team

。 Juhi Wani

• Project Schedule

Date		Work
0	15 May	Setting up Work environment
0	16 May	Create IBM Service and create device
0	17 May	Connect IBM Watson Device to IOT Simulator and receive and display data
0	22 May	Explore Node-red platform
0	23 May	Create a node to send IOT data to the device
0	24 May	Make http request to api to receive weather data
0	26 May	Make a dashboard and UI to display data
0	28 May	Make buttons for the motor control and configure them
0	1 June	Write Python code to connect to ibm iot device
0	5 June	Make required changes in code about display and requests, etc.
0	7 June	Configure the UI to make it readable and user friendly