

PROJECT KICKOFF TEMPLATE

PROJECT SCOPE

PROJECT NAME : Smart Agriculture System Based On IOT

PROJECT SUMMARY :

**** We Need To Follow These Steps To Complete Our Project :-**

>> Project Planning and Kickoff.

>> Explore IBM Cloud.

>> Connect the IOT Stimulator To Watson IOT Platform.

>> Configure The Nordered TO Get the data from IBM IOT Platform And Open Weather API

>> Building a Web App.

>> Configure your device to receive the data from the web application And Control Your Motors.

>> Our project main aim is to help farmers to control his motor from home. He can On and Off his motor by using his mobile phone.

>> By Using Weather API he can know the weather Conditions like temperature, Humidity and Soil Moisture.

PROJECT REQUIREMENTS :

>> Sensing Technologies

>> Including Soil Scanning

>> Water

>> Light

>> Humidity

>> Temperature Management.

FUNCTIONAL REQUIREMENTS:

Technical Requirements Such as :

>> Cellular Communication

>> Global Positioning System.

>> Data Network

>>Configure The Nodered To Get The Data From IBM IOT Platform And Open Weather API

>> Equipment Tracking

>> Climate analysis.

TECHNICAL REQUIREMENTS :

Technical Requirements Such as :

>> JAVA

>> PYTHON.

SOFTWARE REQUIREMENTS :

>> Node-red Software

>> IIBM Watson IOT Platform.

>>Python 3 IDLE.

PROJECT SCHEDULE :

>> Project Planning and Kickoff.(22nd-23rd may)

>> Explore IBM Cloud Platform.(24th may)

>> Connect The IOT stimulator To Watson IOT Platform.(23rd may)

>> Configure the Nodered To get the data From IBM IOT platform and open weather API(24th may-8th june)

>> Building a Web App(9th june-11th june)

>> Configure Your Device to receive the datafrom the web Application and Control your Motors. (11th june-15th june)

>>Weather API can know the weather Conditions like temperature, Humidity and Soil Moisture.

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PROJECT DELIVERABLES :

>> A web App for farmers where he can:

- Monitor temperature,humidity,soil moisture along with weather forecasting details.
- Control motor for watering the crop.

PROJECT TEAM :

>>Anuja Dosapati