# Kickoff Meeting

Agenda

**Project Name** - Smart Agriculture System Based On IoT

**Kickoff Date** - 21/05/2020

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| **Topic** | **Leader** |
| Introduce and welcome team members-  1. Snehasish Pradhan ( Individual)  Army Institute of Technology  Pune | Project Manager |
| Discuss project background   1. What we have today   -We have our goal i.e. to make a web app on Smart Agriculture System using IoT  - We have provisions to IBM cloud and IBM Watson  - platform like OpenWeather API  - knowledge of sensors and basic computing skills   1. Why we need to change   - to be more goal oriented  - to focus on creating easy interface of web app rather than complex   1. What are the key measures of success?   - To be able to monitor the temperature, humidity and soil moisture parameters along with weather forecasting details. | Project Sponsor |
| Identify stakeholders   1. Who is impacted?   - Farmer groups and all those associated with agricultural activities.   1. Who are the key stakeholders - Sponsor and/or other decision makers who represent constituencies that will be impacted, and whose support is critical to the success of the project?   - Agricultural institutions, companies  - Agricultural ministry for support and permission  - Project group | Project Manager |
| Review project objectives   1. Objectives   - to create a web app on Smart Agriculture System based on IoT that can monitor soil moisture and climatic conditions to grow and yield a good crop.   1. Deliverables   - providing farmers a mobile app using which he can monitor the temperature, humidity and soil moisture parameters along with weather forecasting details.   1. Assumption   - all the sensors are available and working accurately  - all the equipments are fitted properly at the relevant places. | Project Manager Technical Lead |
| Review team member roles & responsibilities   1. Project Team-   Snehasish- creating web app  TheSmartBridge - Mentorship   1. Advisory groups (if needed)   TheSmartBridge | Project Manager |
| Review other potential issues, risks, questions and concerns  *What might get in the way of success? How could we address those concerns?*  -Technical issues with software  -Permission from governing bodies  -Proper internet connection in villages | Project Manager |
| Identify next steps and timing   * Team communications   Required communication with the mentors through slack channel   * Frequency of team meetings   Regular sessions 2 times per week | Project Manager |

**Project Scope**

**Project Summary-**

The project propose to create a novel smart IOT based agriculture system which will assist farmers in getting live data (Temperature, soil moisture, humidity) for efficient environment monitoring which will enable them to do smart farming and increase their overall yield and quality of products.

**Project Requirements-**

1. Coding platform

2. IBM Watson and IBM Cloud

3. Nodered

4. IoT IBM platform

5. Openweather API

6. Python Programming

7. Simulated sensors

**Functional Requirements-**

1. Weather data using API

2. IBM IoT Simulator

3. Motor ON/OFF

4. Mobile Application

5. GitHub uploads

**Technical Requirements-**

1. Integration of Watson IoT platform with simulated sensors

2. Integration of Watson IBM IoT platform with Node-red

3. Based on weather API data controlling devices through python programming

4. Connection of Node-red with web app using MQTT

**Software Requirements-**

1. Python IDE

2. Watson IBM IoT Platform

3. GitHub

4. Node-red

5. Open Weather API

**Project Deliverables-**

We intend to provide farmers 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 web 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 Team-**

Snehasish Pradhan (individual)

The SmartBridge (Mentors)

**Project Schedule-**

4 Weeks, 20 May 3020 to 20 June 2020