

Project Scope Document

- Project Summary:

My project title is Smart Agriculture system based on IoT. In this project, I am collecting the temperature, humidity, soil moisture data from IBM Watson IOT sensor randomly. And also, I am collecting that data from open weather API in a particular region. That data also includes weather forecasts, temperature, sun rise, sun set, coord lon, lat and many more. And we are doing also motor on/off by using a button on interface which gives auto-control of pump. These types of things give us a lot to possible smart farming concept. Farmer can easily get these types of information just by pressing a single button.

- Project Requirements:

1. IBM Cloud
2. IBM Watson IOT Module
3. IBM IOT Stimulator
4. Node-Red
5. Python IDLE
6. Open Weather API
7. GitHub
8. ZOHO Writer

- Functional Requirements:

- | | |
|------------------|-----------------|
| 1. Temperature | 5. Wind Speed |
| 2. Humidity | 6. Wind Angle |
| 3. Soil Moisture | 7. Motor on/off |
| 4. Coord | 8. Sun rise/set |

- Technical Requirements:

1. IBM Cloud
2. IBM Watson IOT Module
3. IBM IOT Stimulator
4. Node-red
5. Python Idle
6. Open Weather API

- Software Requirements:

1. Python Idle
2. Node-Red

- Project Deliverables:
 1. Concept of Various Topics
 2. How to use Node-Red
 3. How to Make UI
 4. How to make an APP
 5. How to send motor on/off data manually
- Project Team:

I am the only one person in my project team.
- Project Schedule:

Mentioned duration is 16.2 days.