

CANDIDATE NAME

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PROJECT ID

SPS\_PRO\_101

PROJECT NAME

Smart Agriculture System Based On Iot

PROJECT OBJECTIVE

By using smart devices, you can automate multiple processes across your production cycle, e.g. irrigation, fertilizing, or pest control. Enhanced product quality and volumes. Achieve better control over the production process and maintain higher standards of crop quality and growth capacity through automation.

STARTING DATE

20/05/2020

## PROJECT SCOPE DOCUMENT

- **Project Summary:** Smart Agriculture using Internet of Things, Internet of things are nothing but, the things which are handled by internet. In general ability to transfer data over a network without requiring human-to-human or human-to-computer interaction. IOT plays major rule in Smart Agriculture, without the human presence the agricultural activities can be controlled using smartphones. Like humidity level, temperature level, moisture level and mineral level can be analysed and depending upon the required condition the respective further operations are handled. This can be possible only because of sensors, which play a major roll in IOT. Sensors called temperature(IR sensor)/humidity(hygrometer) or DHT11 is used to measure temperature and humidity of respective location, the analysed data will be transferred to cloud, from their it will be displayed on linked app.
- **Project Requirements:** Github, IBM cloud platform, Weather API, Node-Red to develop apps,IBM Watson.

- **Functional Requirements:** Analysing Temperature and Humidity level in atmosphere and analysing moisture and mineral level in soil.
- **Technical Requirement:** Iot simulators, Node-Red used to develop app which is supported by android devices.
- **Project Deliverables:** It includes Report->Complete information of project, reported in report, Plan and also includes hardware, software, app information etc.
- **Project Team:** Single(PR)
- **Project Schedule:** 1Month(29 days)