

Project Design Phase-I Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID15940
Project Name	Smart Farmer – IoT Enabled Smart Farming Application
Maximum Marks	4 Marks

SOLUTION ARCHITECTURE:

The different soil parameters (temperature, humidity, light intensity, pH level) are sensed using different sensors and the obtained value is stored in IBM cloud.

Arduino uno is used as a processing unit which processes the data obtained from sensors and weather data from weather API.

Node red is used as a programming tool to wire the hardware, software and APIs. The MQTT protocol is followed for communication.

All the collected data are provided to the user through a mobile application which was developed using MIT app inventor. The user could make decision through an app, whether to water the crop or not depending upon the sensor values.

