Sprint delivery 1

Title	Smart Farmer-IOT Enabled Smart Farming Application
Domain name	INTERNET OF THINGS
Team ID	PNT2022TMID29878

Arduino using C++ code To Connect Sensors:

```
#include "Arduino.h"
#include "dht.h"
#include "SoilMoisture.h"
#define dht_apin A0 const int sensor_pin = A1;
//soil moisture int pin_out = 9; dht DHT;
int c=0;
void setup()
{
pinMode(2, INPUT);
//Pin 2 as INPUT pinMode(3, OUTPUT);
//PIN 3 as OUTPUT pinMode(9, OUTPUT);
//output for pump
}
void loop()
{
if (digitalRead(2) == HIGH)
{
digitalWrite(3, HIGH);
// turn the LED/Buzz ON delay(10000);
// wait for 100 msecond digitalWrite(3, LOW);
// turn the LED/Buzz OFF delay(100);
}
Serial.begin(9600);
delay(1000);
DHT.read11(dht_apin);
//temprature float h=DHT.humidity;
float t=DHT.temperature;
delay(5000);
Serial.begin(9600);
float moisture_percentage;
```

```
int sensor_analog;
sensor_analog = analogRead(sensor_pin);
moisture_percentage = ( 100 - ( (sensor_analog/1023.00) * 100 ) );
float m=moisture_percentage;
delay(1000);
if(m=0)
{
mySerial.begin(9600);
delay(15000);
Serial.begin(9600);
delay(1000);
Serial.print("\r");
delay(1000);
Serial.print((String)"update- >"+(String)"Temprature="+t+(String)"Humidity="+h+(String )"Moisture="+m);
delay(1000);
```

Circuit Diagram: