# PROJECT DEVELOPMENT PHASE

## SPRINT 1

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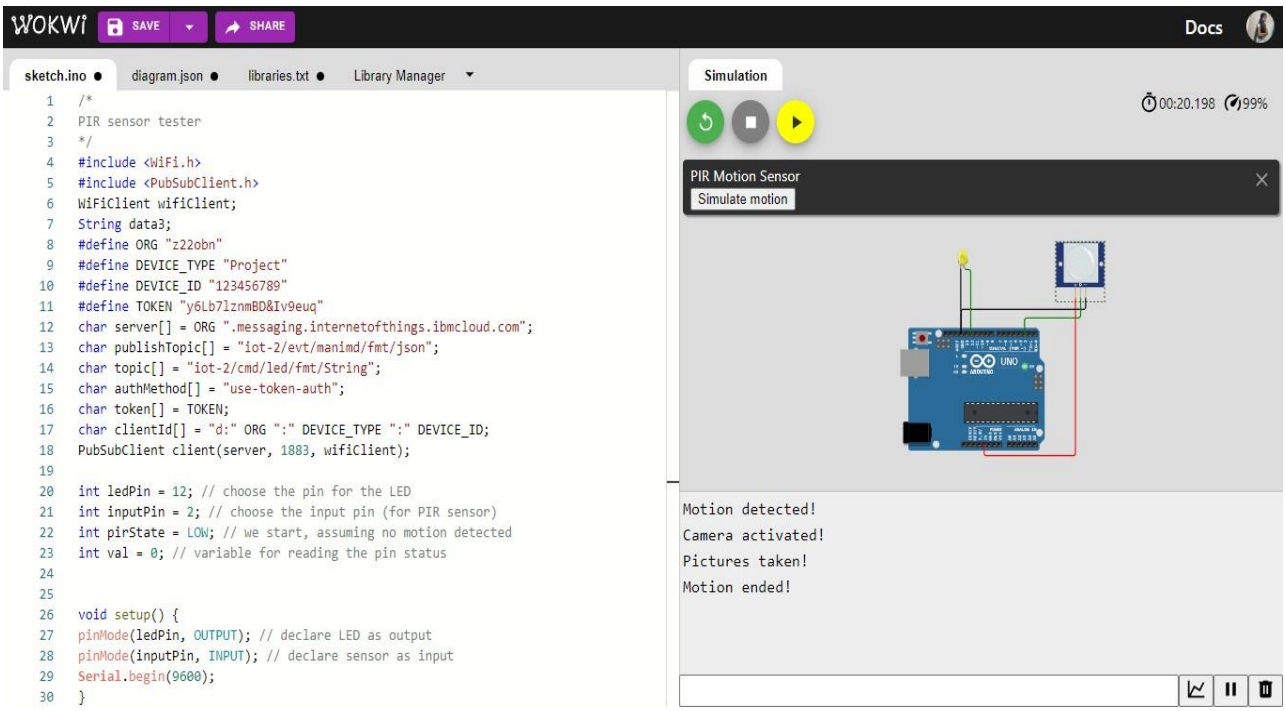
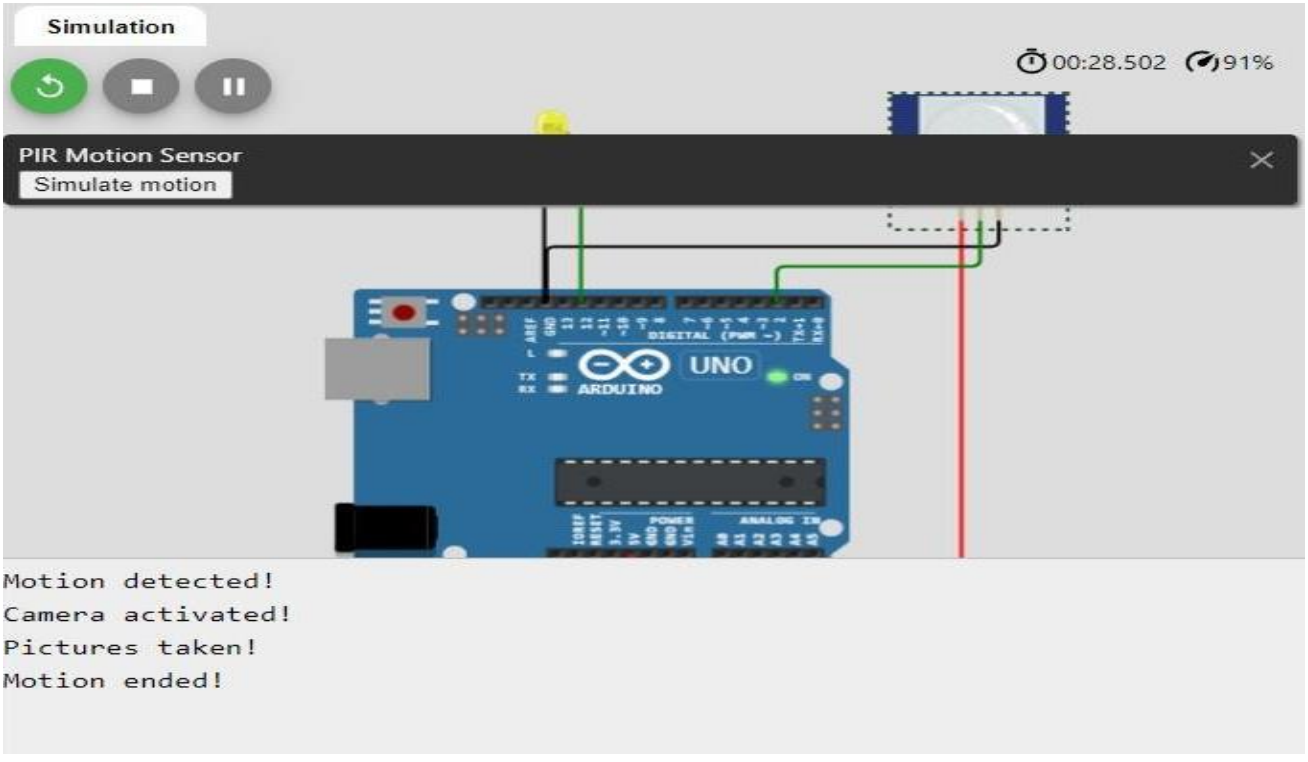
|---|---|
| Date | 29 October 2022 |
| Team ID | PNT2022TMID17444 |
| Project Name | IoT Based Smart Crop Protection System forAgriculture |



**PYTHON CODE:**

```
/*PIR sensor tester*/
#include <WiFi.h>
#include <PubSubClient.h>
WiFiClient wifiClient;
String data3;
#define ORG "z22obn"
#define DEVICE_TYPE "Project"
#define DEVICE_ID "123456789"
#define TOKEN "y6Lb7lznmBD&Iv9euq"
int ledPin = 12; // choose the pin for the LED
int inputPin = 2; // choose the input pin (for PIR sensor)
int pirState = LOW; // we start, assuming no motion detected
int val = 0; // variable for reading the pin status
void setup() {
pinMode(ledPin, OUTPUT); // declare LED as output
pinMode(inputPin, INPUT); // declare sensor as input
Serial.begin(9600);
}
void loop() {
val = digitalRead(inputPin); // read input value
if (val == HIGH) { // check if the input is HIGH
digitalWrite(ledPin, HIGH); // turn LED ON
//void publishData();
 if (pirState == LOW)
{
// we have just turned on
Serial.println("Motion detected!");
Serial.println("Camera activated!");
delay(1000);
Serial.println("Pictures taken!");
// We only want to print on the output change, not state
pirState = HIGH;
}
}
```

```
else {
digitalWrite(ledPin, LOW); // turn LED OFF
//void publishData();
if (pirState == HIGH) {
// we have just turned of
Serial.println("Motion ended!");
// We only want to print on the output change, not state
pirState = LOW;
    }
  }
}
```

**WOKWI LINK:**
https://wokwi.com/projects/347392355240772180