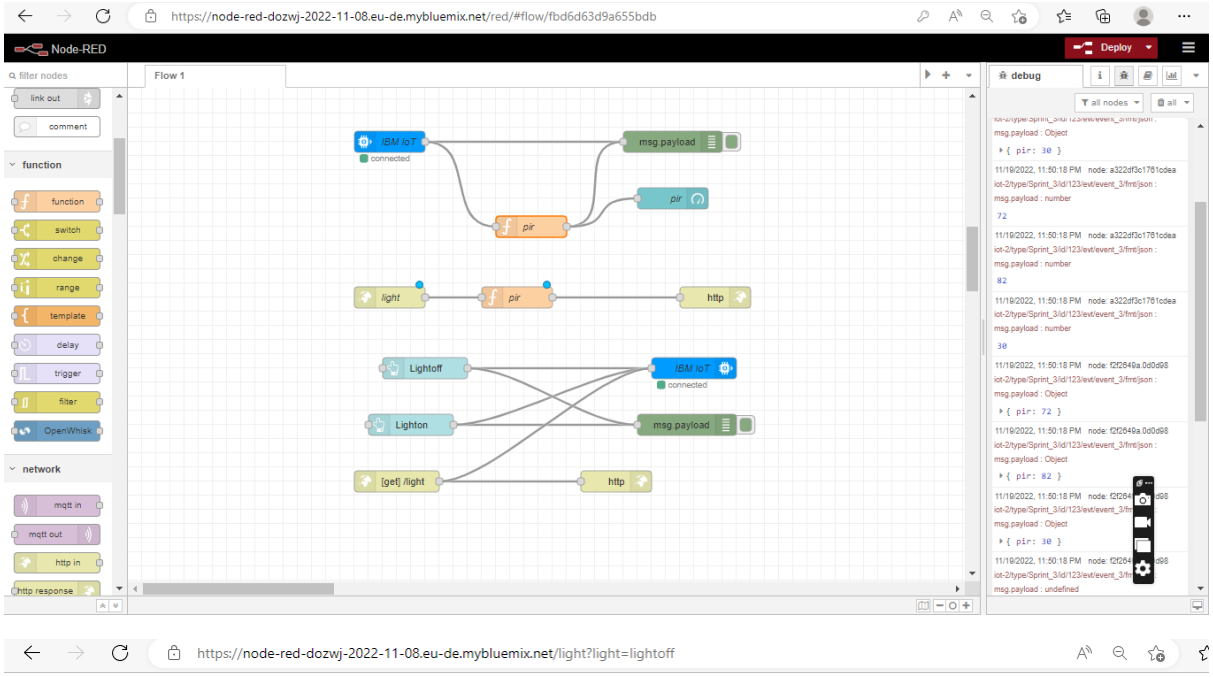
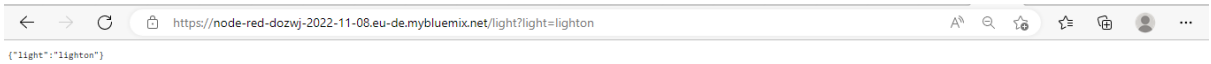
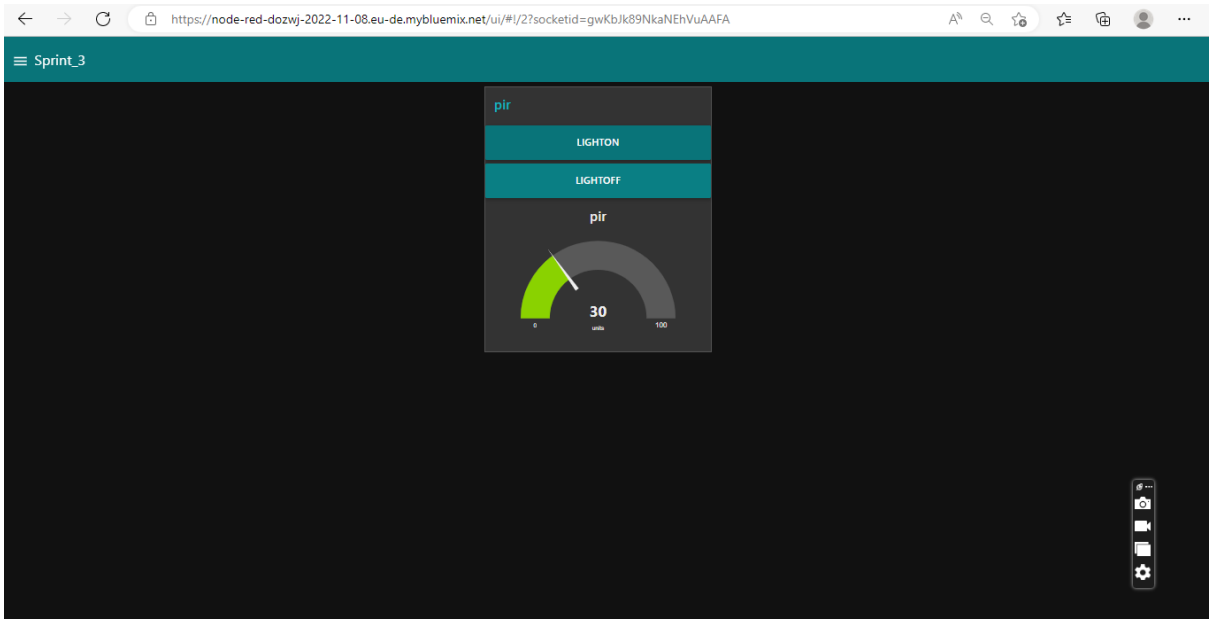
Project Design Phase-I
Proposed Solution Template

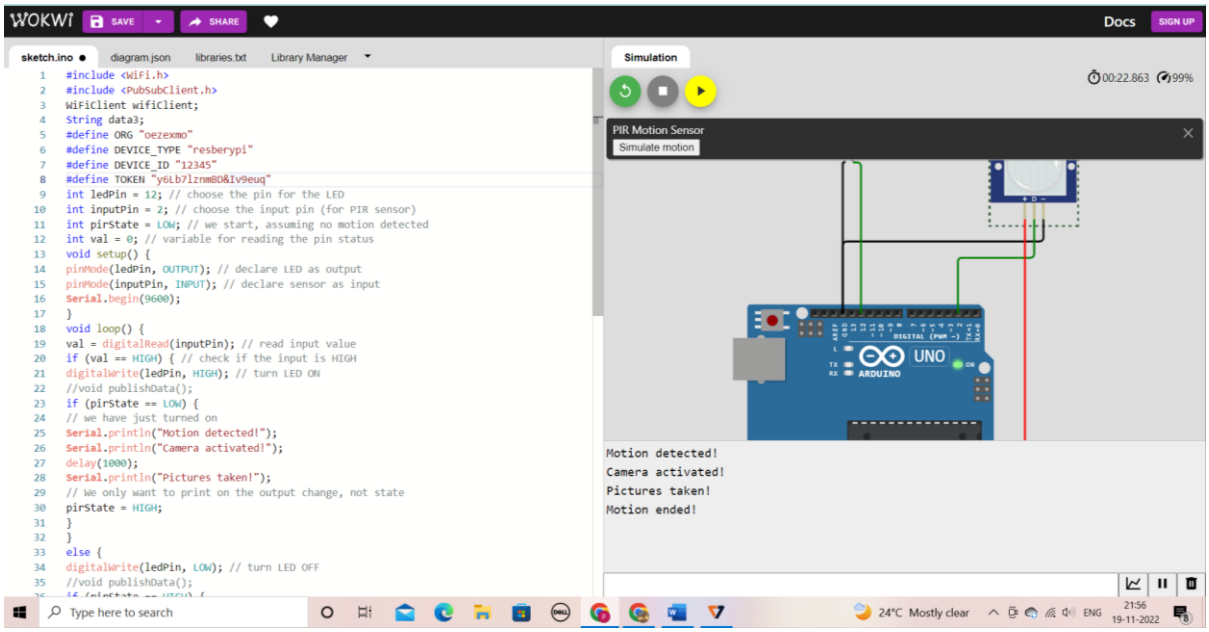
Date	19 October 2022
Team ID	PNT2022TMID11377
Project Name	Project – IOT enabled smart farmer application



{"light":"lightoff"}


https://node-red-dozwj-2022-11-08.eu-de.mybluemix.net/light?light=lighton
{"light":"lighton"}


https://node-red-dozwj-2022-11-08.eu-de.mybluemix.net/ui/#!/2?socketid=gwKbJk89NkaNEhVuAAFA
Sprint_3
pir
LIGHTON
LIGHTOFF
pir
30
0
100



PYTHON CODE:

```
#include <WiFi.h>
#include <PubSubClient.h>
WiFiClient wifiClient;
String data3;
#define ORG "oezexmo"
#define DEVICE_TYPE "resberypi"
#define DEVICE_ID "12345"
#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;
```

}}}