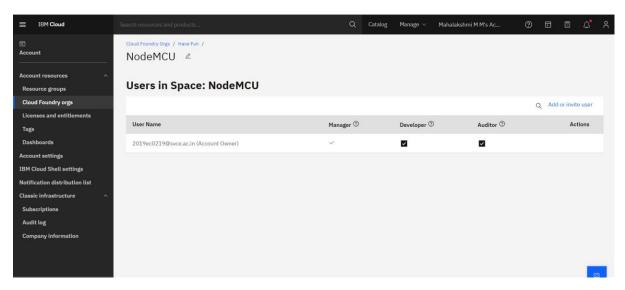
SPRINT 1

Date	29 October 2022
Team ID	PNT2022TMID36645
Project Name	Smart Farmer – IOT Enabled Smart Farming Application
Maximum Marks	8 Marks

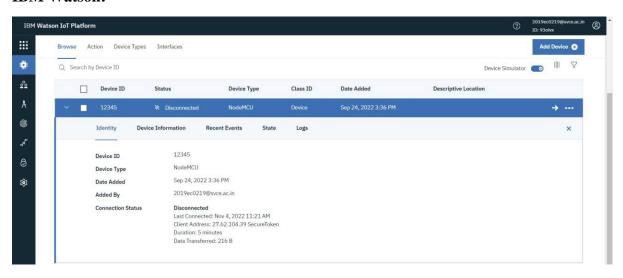
Configuration:

An account has been created on the required platforms (IBM Cloud, IBM Watson, Node-Red, MIT App Inventor) $\,$

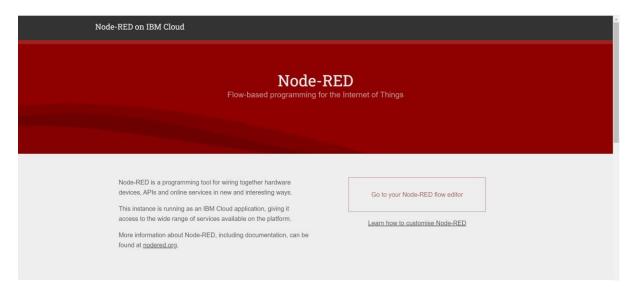
IBM Cloud:



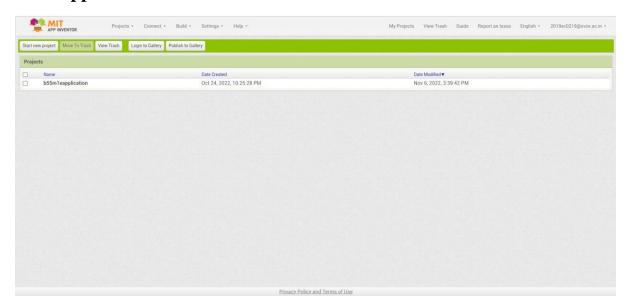
IBM Watson:



Node-Red:



MIT App Inventor:



Simulation:

Program:

```
#include <Adafruit_Sensor.h>
#include <DHT.h>
#include <DHT_U.h>

#define DHTPIN 4
#define DHTTYPE DHT22

DHT_Unified dht(DHTPIN, DHTTYPE);
uint32_t delayMS;
```

```
void setup() {
 Serial.begin(9600);
 // Initialize device.
 dht.begin();
 Serial.println(F("DHTxx Unified Sensor Example"));
 sensor t sensor;
 dht.temperature().getSensor(&sensor);
 Serial.println(F(" ----- "));
 Serial.println(F("Temperature Sensor"));
 Serial.print(sensor.resolution);
 Serial.println(F("°C"));
 Serial.println(F("-----"));
 dht.humidity().getSensor(&sensor);
 Serial.println(F("Humidity Sensor"));
 Serial.print(sensor.resolution);
 Serial.println(F("%"));
 Serial.println(F("-----"));
 delayMS = sensor.min_delay / 1000;
}
void loop() {
 delay(delayMS);
 sensors_event_t event;
 dht.temperature().getEvent(&event);
 if (isnan(event.temperature)) {
   Serial.println(F("Error reading temperature!"));
 }
 else {
   Serial.print(F("Temperature: "));
   Serial.print(event.temperature);
   Serial.println(F("°C"));
 }
 dht.humidity().getEvent(&event);
 if (isnan(event.relative_humidity)) {
   Serial.println(F("Error reading humidity!"));
 }
 else {
   Serial.print(F("Humidity: "));
   Serial.print(event.relative_humidity);
   Serial.println(F("%"));
 }
}
```

OUTPUT:

