**Project Development Phase**

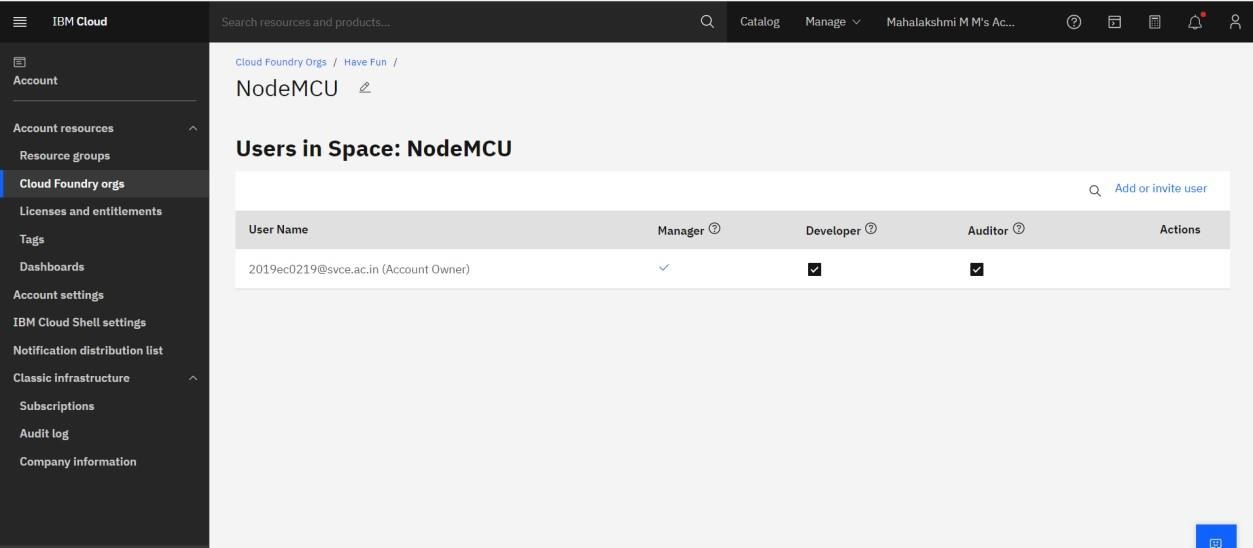
**SPRINT 1**

|  |  |
| --- | --- |
| **Date** | **6th November 2022** |
| **Team ID** | **PNT2022TMID28767** |
| **Project Name** | **IoT Enabled Smart Farming Application** |
| **Team Members** | **Chithra Burri**  **Chintham Ruthesh Premkanth**  **Vinay K**  **Sk. Sohail** |

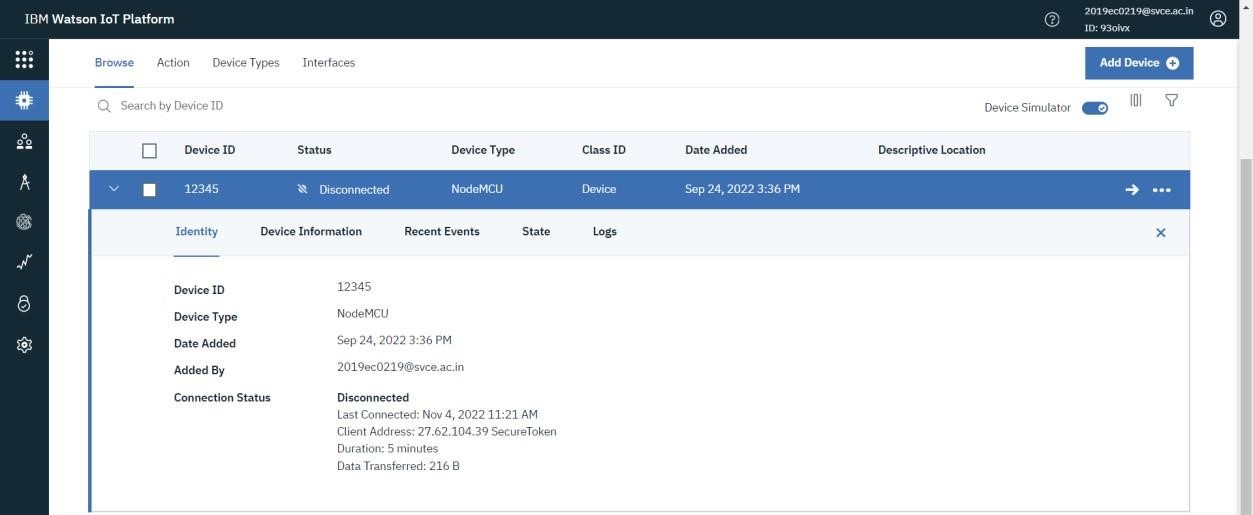
**Configuration:**

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

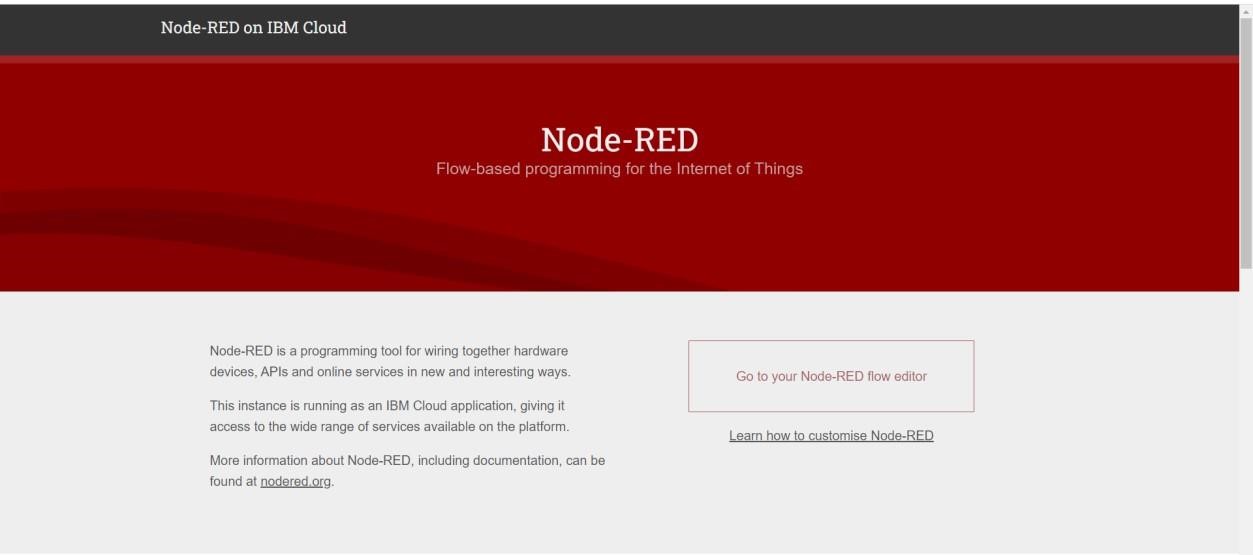
**IBM Cloud:**



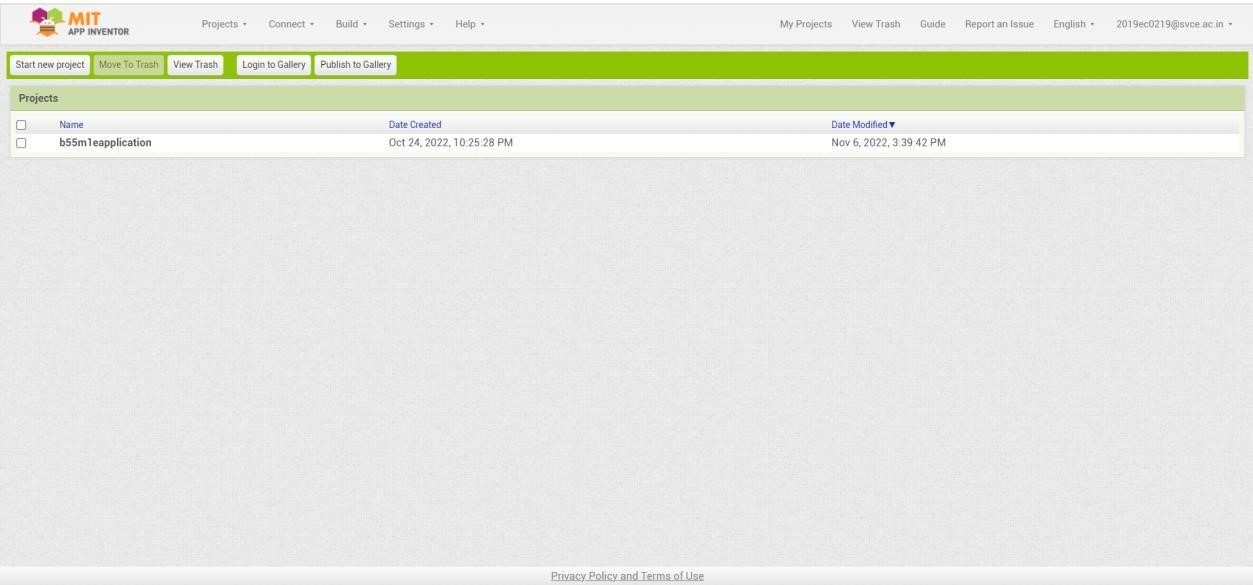
**IBM Watson:**



**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(960

0); // 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:**

