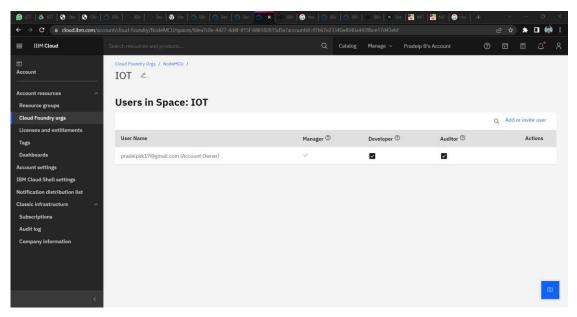
SPRINT 1

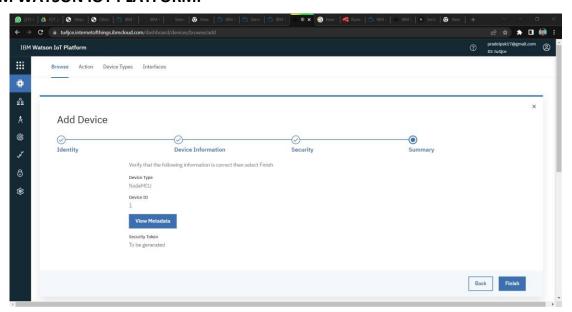
Date	29 October 2022
Team ID	PNT2022TMID26330
Project Name	Smart Farmer – IoT Enabled Farming Application
Maximum Marks	8 Marks

An account has been created on the respective platforms like IBM Cloud, IBM Watson, Node-Red, MIT App Inventor.

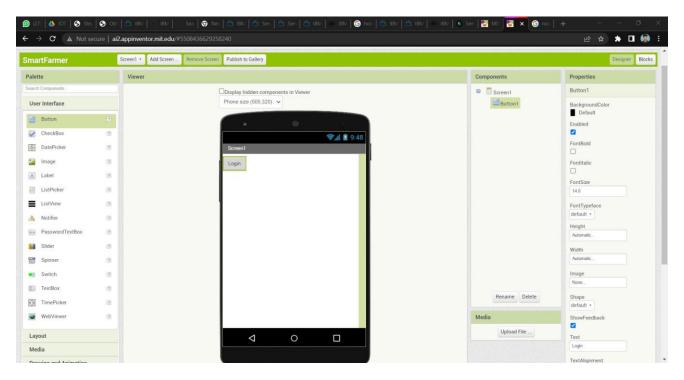
IBM CLOUD DASHBOARD:



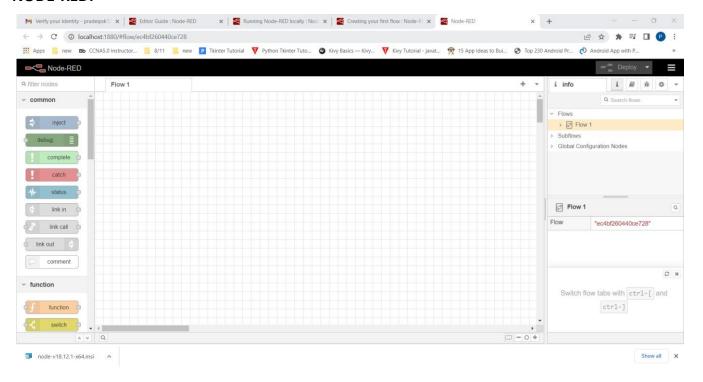
IBM WATSON IOT PLATFORM:



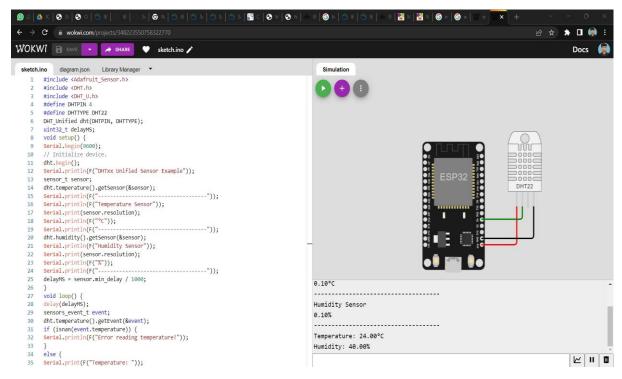
MIT APP INVENTOR:



NODE-RED:



MEASURING TEMPERATURE AND HUMIDITY VALUES WITH ESP 32:



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
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("%"));
}
}
```