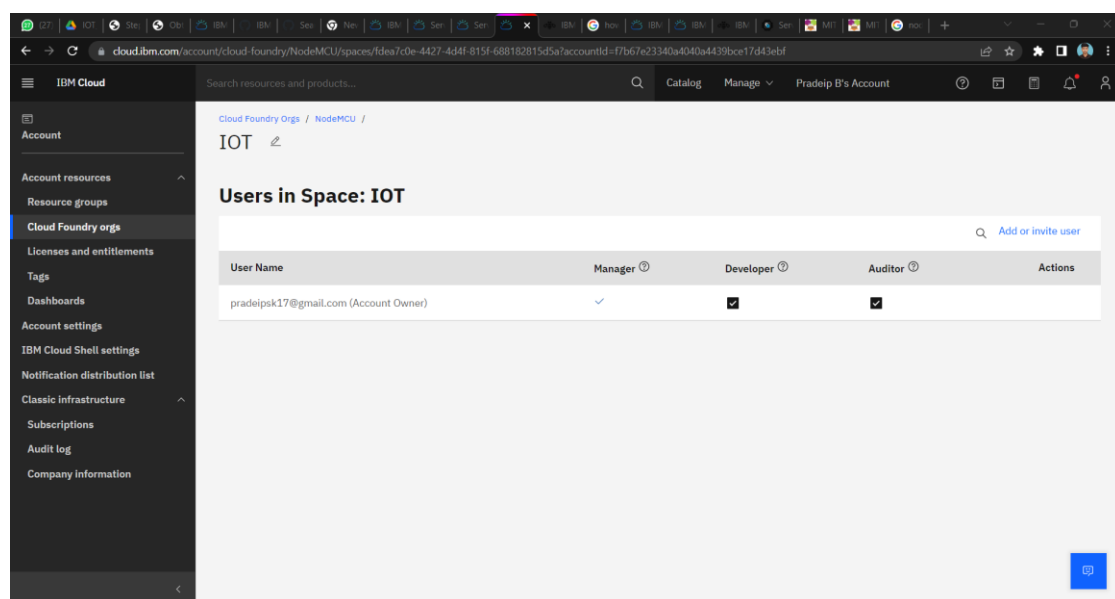


SPRINT 1

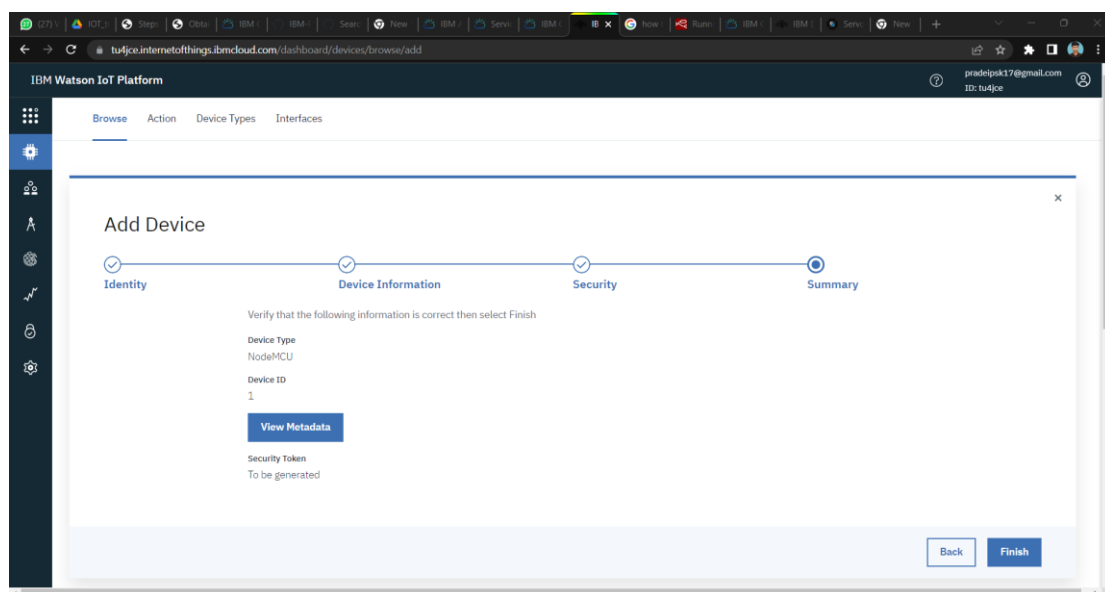
Date	29 October 2022
Team ID	PNT2022TMID12920
Project Name	Smart Farmer – IoT Enabled Farming Application
Maximum Marks	8 Marks

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

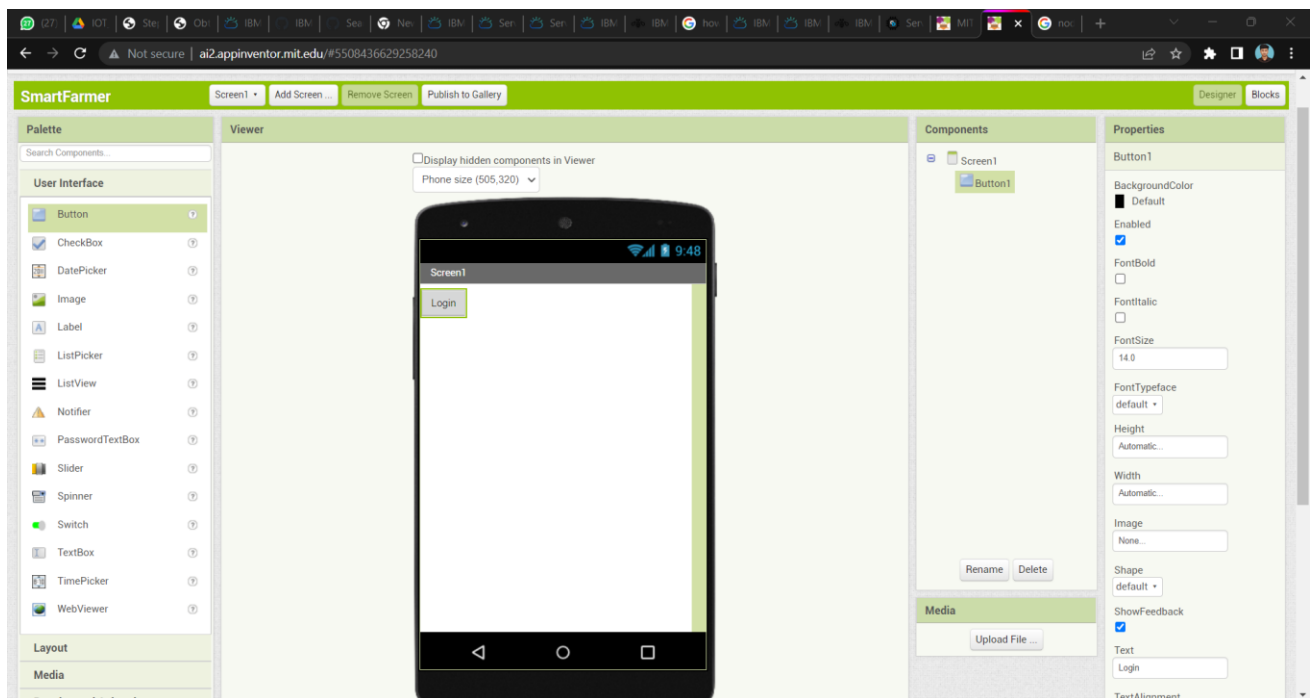
IBM CLOUD DASHBOARD:



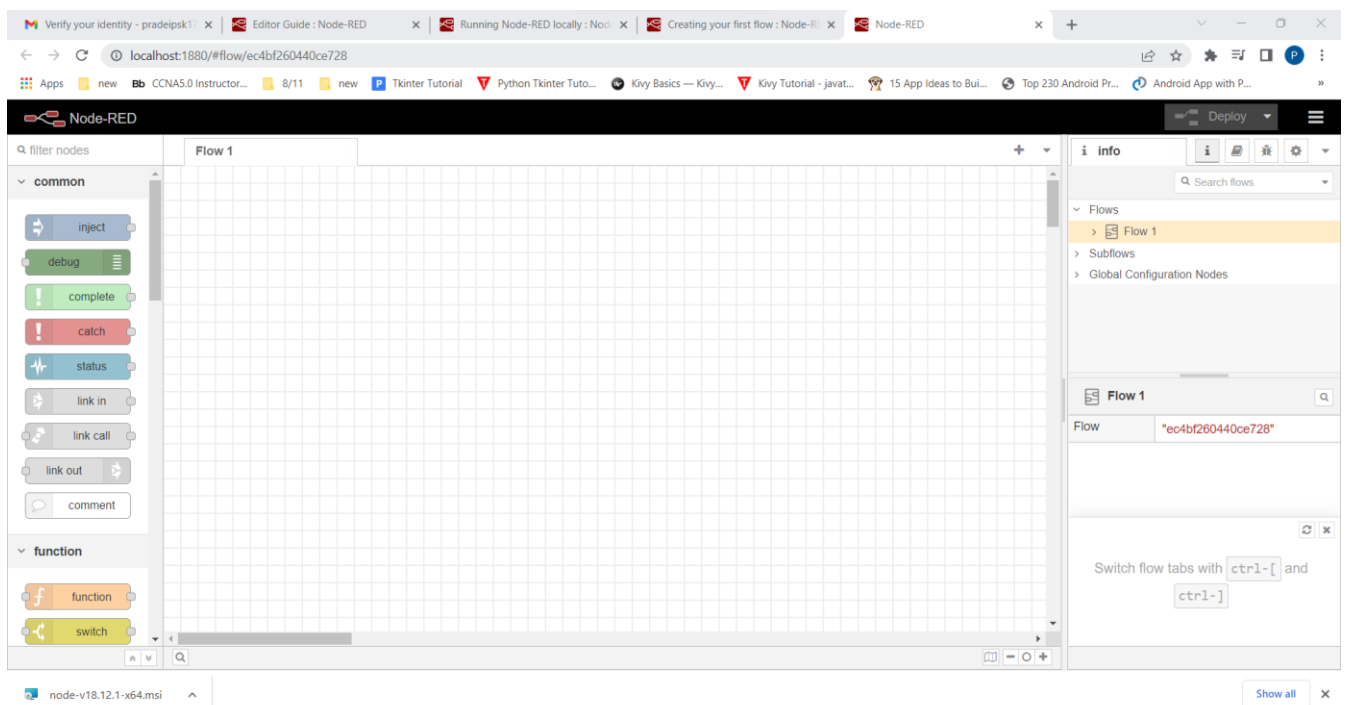
IBM WATSON IOT PLATFORM:



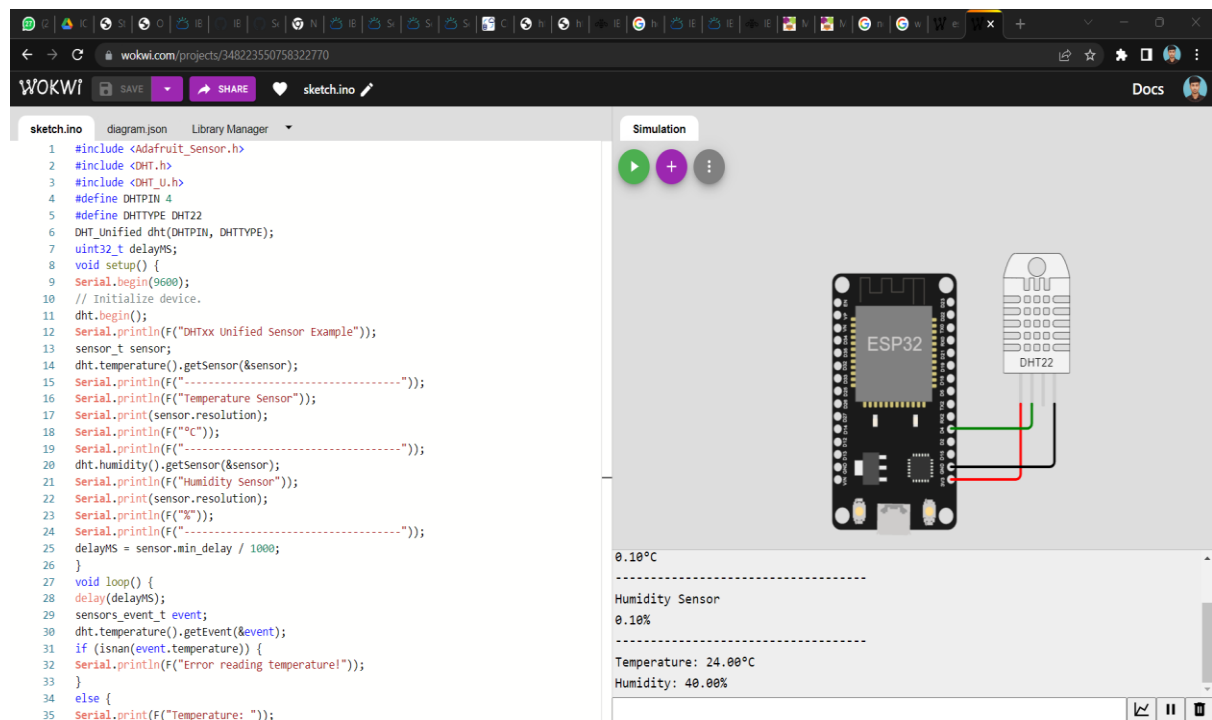
MIT APP INVENTOR:



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

Wokwi editor window link: <https://wokwi.com/projects/348223550758322770>