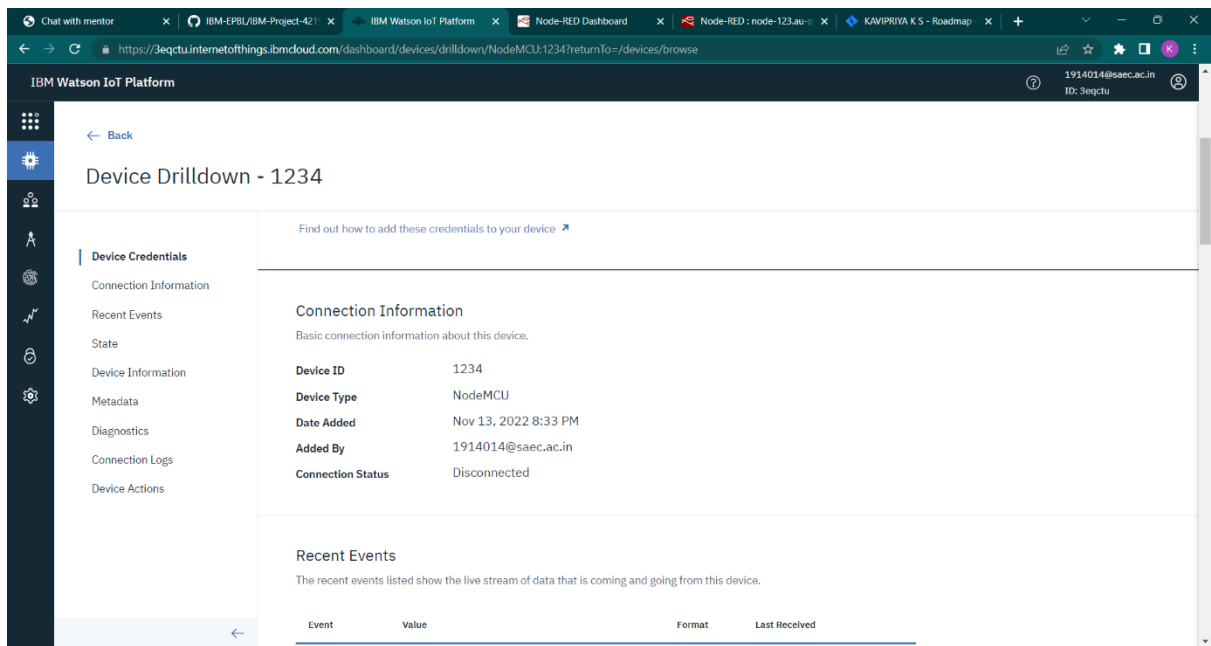


NALAIYA THIRAN

PROJECT DEVELOPMENT PHASE

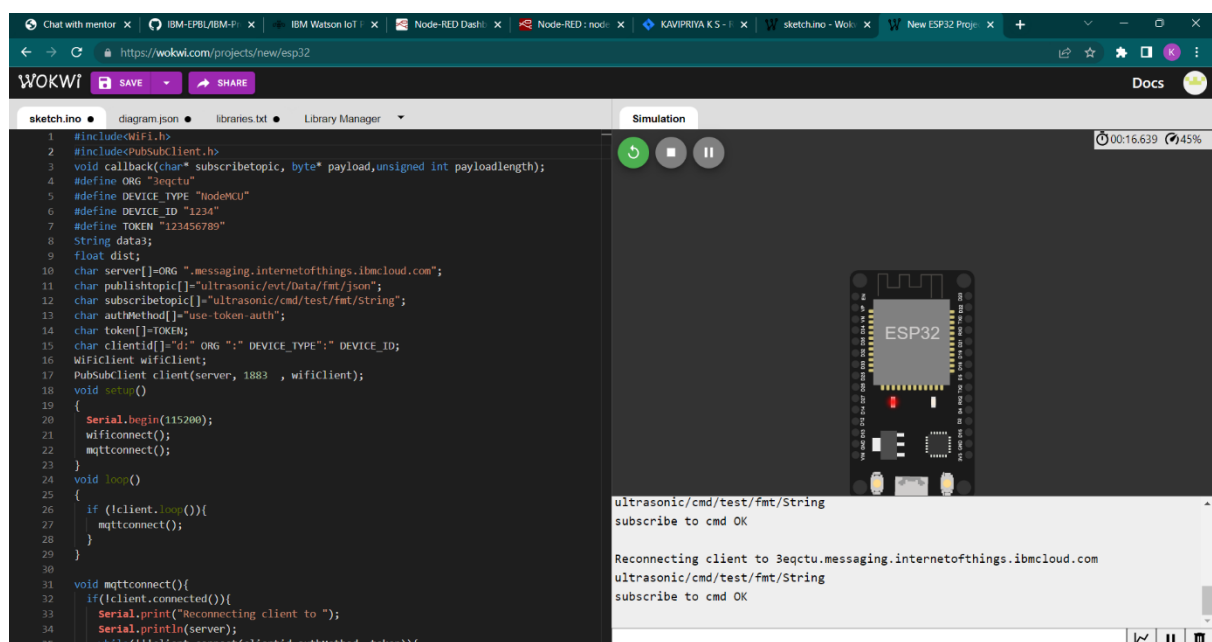
SPRINT-1

CREATION OF IOT DEVICE CONFIGURATION IN IBM IOT WATSON



CONNECTING IBM IOT WATSON CLOUD USING WOKWI

WOKWI LINK: <https://wokwi.com/projects/347406552336958036>



CODE:

```
#include<WiFi.h>
#include<PubSubClient.h>
void callback(char* subscribetopic, byte* payload,unsigned int payloadlength);
#define ORG "3eqctu"
#define DEVICE_TYPE "NodeMCU"
#define DEVICE_ID "1234"
#define TOKEN "123456789"
String data3;
float dist;
char server[]=ORG ".messaging.internetofthings.ibmcloud.com";
char publishtopic[]="ultrasonic/evt/Data/fmt/json";
char subscribetopic[]="ultrasonic/cmd/test/fmt/String";
char authMethod[]="use-token-auth";
char token[]=TOKEN;
char clientid[]="d:" ORG ":" DEVICE_TYPE":" DEVICE_ID;
WiFiClient wifiClient;
PubSubClient client(server, 1883 , wifiClient);
void setup()
{
    Serial.begin(115200);
    wificonnect();
    mqttconnect();
}
void loop()
{
    if (!client.loop()){
        mqttconnect();
    }
}
void mqttconnect(){
    if(!client.connected()){
        Serial.print("Reconnecting client to ");
        Serial.println(server);
        while(!!!client.connect(clientid,authMethod, token)){
            Serial.print(".");
            delay(500);
        }
        initManagedDevice();
        Serial.println();
    }
    else{
        Serial.println("Connected :)");
    }
}
void wificonnect()
{
    Serial.println();
```

```

Serial.print("Connecting to ");
WiFi.begin("Wokwi-GUEST", "",6);
while (WiFi.status() !=WL_CONNECTED){
    delay(500);
    Serial.print(".");
}
Serial.println("");
Serial.println("WiFi connected");
Serial.println("IP address");
Serial.println(WiFi.localIP());
}

void initManagedDevice(){
    if(client.subscribe(subscribetopic)){
        Serial.println((subscribetopic));
        Serial.println("subscribe to cmd OK");
    }else{
        Serial.println("subscribe to cmd failed");
    }
}
}

```

JIRA PROCESS:

The screenshot displays the Jira Software Roadmap for the project 'KAVIPRIYA K S'. The main view is a timeline showing the progression of sprints. A purple bar indicates the current sprint, KKS-8, which is in progress. Below this, a list of sprints is shown: KKS-9 (DONE), KKS-10 (IN PROGRESS), KKS-11 (IN PROGRESS), and KKS-12 (IN PROGRESS). The left sidebar contains navigation options like Roadmap, Board, Code, and Project settings. The top navigation bar includes filters, dashboards, and a search bar.