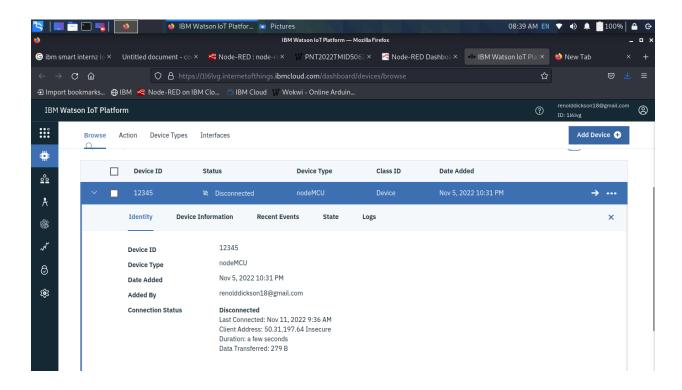
SPRINT - 1

Project Title:	Personal Assistant for Senior Citizen
Team ID:	PNT2022TMID50622

Created IOT device config in IBM IOT watson



Connected IBM IOT watson cloud with wokwi(nodemcu)

Wokwi url: https://wokwi.com/projects/347406552336958036

Code:

```
#include<WiFi.h>//library for wifi module
#include<PubSubClient.h>//library for MQTT
void callback(char* subscribetopic, byte* payload,unsigned int payloadlength);
//------credentials of IBM Account-----
#define ORG "twoqgm"// IBM ORGANIZATION ID
#define DEVICE_TYPE "nodemcu"//DEVICE TYPE MENTIONED IN IOT WATSON PLATFORM
#define DEVICE_ID "11111"//DEVICE ID MENTIONED IN IOT WATSON PLATEFORM
#define TOKEN "XsgsvH8+*w4p2Y_XQO"//Token
String data3;
```

```
float dist;
//----customize the above value-----
char server[]=ORG ".messaging.internetofthings.ibmcloud.com";//server name
char publishtopic[]="ultrasonic/evt/Data/fmt/json";/*topic name and type of event perform
and format in which data to be send*/
char subscribetopic[]="ultrasonic/cmd/test/fmt/String";/*cmd REPRESENT Command tupe and
COMMAND IS TEST OF FORMAT STRING*/char authMethod[]="use-token-auth"://authentication
method
char token[]=TOKEN;
char clientid[]="d:" ORG ":" DEVICE TYPE":" DEVICE ID;//CLIENT ID
//-----
WiFiClient wifiClient;// creating an instance for wificlient
PubSubClient client(server, 1883, wifiClient);
void setup()
{
Serial.begin(115200);
wificonnect();
mqttconnect();
void loop()//recursive function
if (!client.loop()){
mqttconnect();
}
/*....retriving to cloud....*/
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()//function defenition for wificonnects
Serial.println();
```

```
Serial.print("Connecting to ");
WiFi.begin("Wokwi-GUEST", "",6);//PASSING THE WIFI CREDIDENTIALS TO ESTABLISH
CONNECTION
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");
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                                                                         Simulation
        Ō00:20.288 (€)57%
         #define TOKEN "XsgsvH8+*w4p2Y_XQ0"//Token
         String data3;
         float dist;
    11
         char server[]=ORG ".messaging.internetofthings.ibmcloud.com";//server r char publishtopic[]="ultrasonic/evt/Data/fmt/json";/*topic name and type and format in which data to be send*/
         char subscribetopic[]="ultrasonic/cmd/test/fmt/String";/*cmd REPRESENT
         COMMAND IS TEST OF FORMAT STRING*
         char authMethod[]="use-token-auth";//authentication method
                                                                       Connecting to ....
         char token[]=TOKEN:
         char clientid[]="d:" ORG ":" DEVICE_TYPE":" DEVICE_ID;//CLIENT ID
                                                                       WiFi connected
                                                                       IP address
         WiFiclient wificlient;// creating an instance for wificlient PubSubClient client(server, 1883 , wificlient);
                                                                       10.10.0.2
                                                                       Reconnecting client to
                                                                       twoqgm.messaging.internetofthings.ibmcloud.com
         void setup()
                                                                       ultrasonic/cmd/test/fmt/String
           Serial.begin(115200):
          wificonnect();
                                                                                                                                   ∠ ► 0
         mattconnect():
```

Jira process:

Url: https://pnt2022tmid50622.atlassian.net/jira/software/projects/PAFSCII/boards/1

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