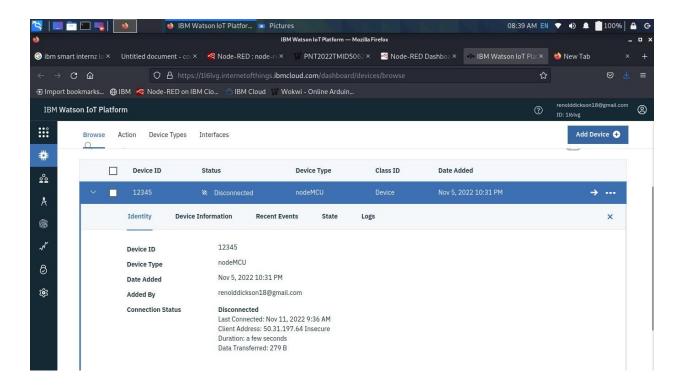
SPRINT - 1

Project Title:	Personal Assistant for Senior Citizen	
Team ID:	PNT2022TMID35094	

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 mgttconnect(){ 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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    wokwi.com/projects/347406552336958036
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             #include<WiFi.h>//library for wifi module
#include<PubSubClient.h>//library for MQTT
                                                                                                                                                                                   Ō00:20.288 (%)57%
             #IncludePubBottent.ns//IDFary Tor MQII
void callback(char* subscribetopic, byte* payload,unsigned int payload\
//-------credentials of IBM Account-----
#define ORG "twoqqm"// IBM ORGANIZATION ID
#define DEVICE_TYPE "nodemcu"/DEVICE TYPE MENTIONED IN IOT WATSON PLAT
#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 r char publishtopic[]="ultrasonic/evt/Data/fmt/json";/*topic name and tyr
             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
             char token[]=TOKEN;
char clientid[]="d:" ORG ":" DEVICE_TYPE":" DEVICE_ID;//CLIENT ID
                                                                                                      Connecting to ....
                                                                                                     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);
                                                                                                      subscribe to cmd OK
               wificonnect():
```

Jira process:

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

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> PAFSCII-8 Sprint 1				
> PAFSCII-9 Sprint 2				
> PAFSCII-10 Sprint 3				
> PAFSCII-11 Sprint 4				