

## SPRINT-4

Date	17 November 2022
Team ID	PNT2022TMID11797
Project Name	Personal Assistance for Seniors Who Are Self-Reliant

WOKWI
SAVE
SHARE
ultrasonic

sketch.ino
diagram.json
libraries.txt
Library Manager

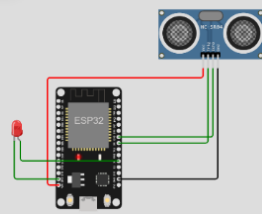
```

1  #include <WiFi.h> //library for wifi
2  #include <PubSubClient.h> //library for MQTT
3
4
5  void callback(char* subscribetopic, byte* payload, unsigned int payl
6
7  //-----credentials of IBM Accounts-----
8
9  #define ORG "lrv63o" //IBM ORGANITION ID
10 #define DEVICE_TYPE "ESP32" //Device type mentioned in ibm watson IOT
11 #define DEVICE_ID "IBM123" //Device ID mentioned in ibm watson IOT P1
12 #define TOKEN "6(v5l8!n8o2I7Y+KCu" //Token
13 String data3;
14 float dist;
15 //----- Customise the above values -----
16 char server[] = ORG ".messaging.internetofthings.ibmcloud.com"; // Se
17 char publishTopic[] = "iot-2/evt/Data/fmt/json"; // topic name and ty
18 char subscribetopic[] = "iot-2/cmd/test/fmt/String"; // cmd REPRESENT
19 char authMethod[] = "use-token-auth"; // authentication method
20 char token[] = TOKEN;
21 char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID; //client id
22
23 //-----
24 WiFiClient wifiClient; // creating the instance for wificlient
25 PubSubClient client(server, 1883, callback, wifiClient); //calling t
26
27 int LED = 4;
28

```

Simulation

▶
■
⏸



```

no object found
Sending payload: {"distance":403.49,"object":"No"}
Publish ok
Distancein cm403.49
no object found
Sending payload: {"distance":403.49,"object":"No"}
Publish ok

```

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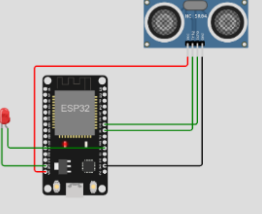
```

145 //Serial.print((char)payload[i]);
146 data3 += (char)payload[i];
147 }
148 // Serial.println("data: "+ data3);
149 // if(data3=="Near")
150 // {
151 // Serial.println(data3);
152 // digitalWrite(LED,HIGH);
153 // }
154 // }
155 // else
156 // {
157 // Serial.println(data3);
158 // digitalWrite(LED,LOW);
159 // }
160 // }
161 data3="";
162 }
163
164 }
165
166

```

Simulation

▶
■
⏸

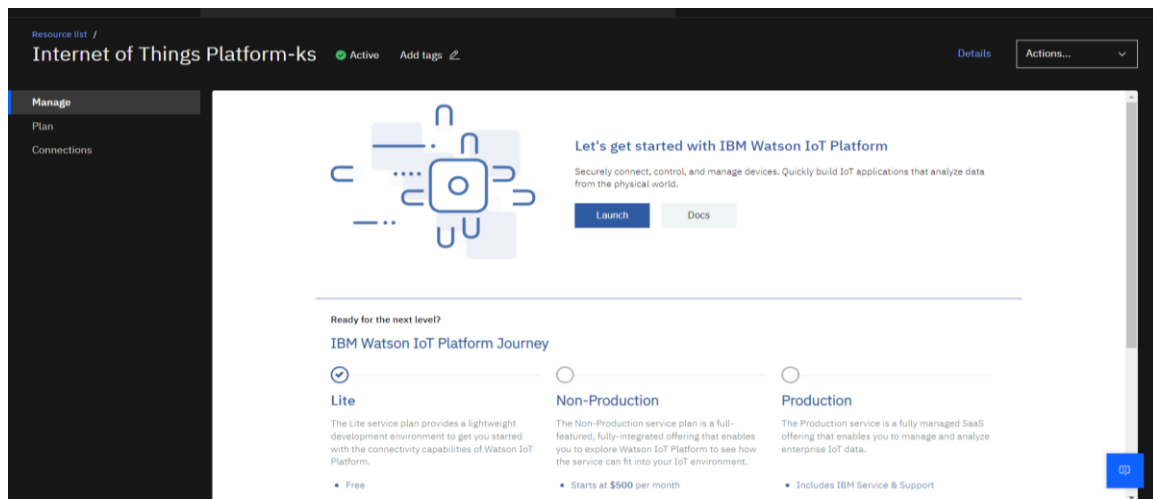


```

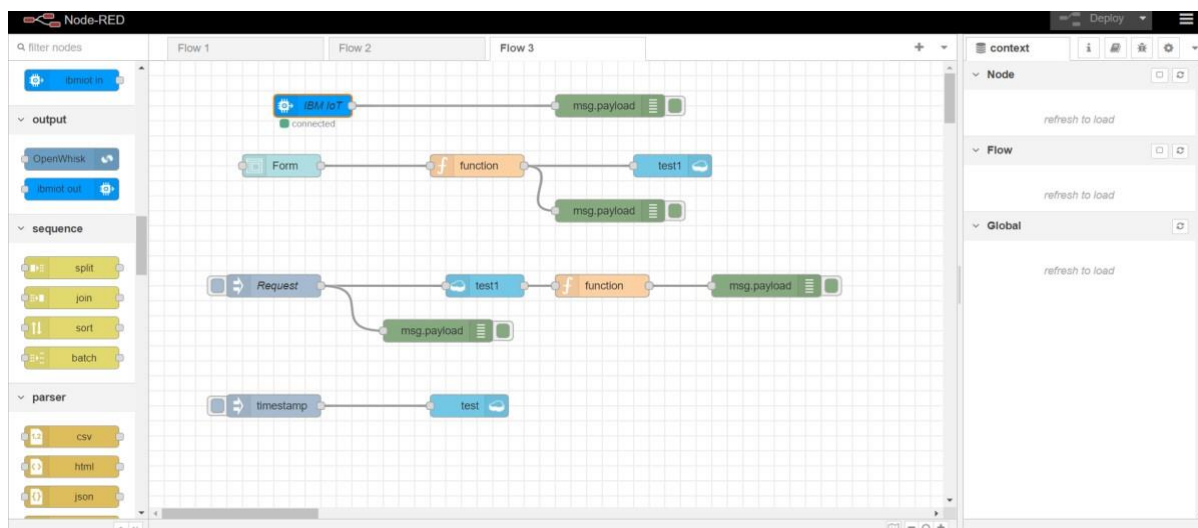
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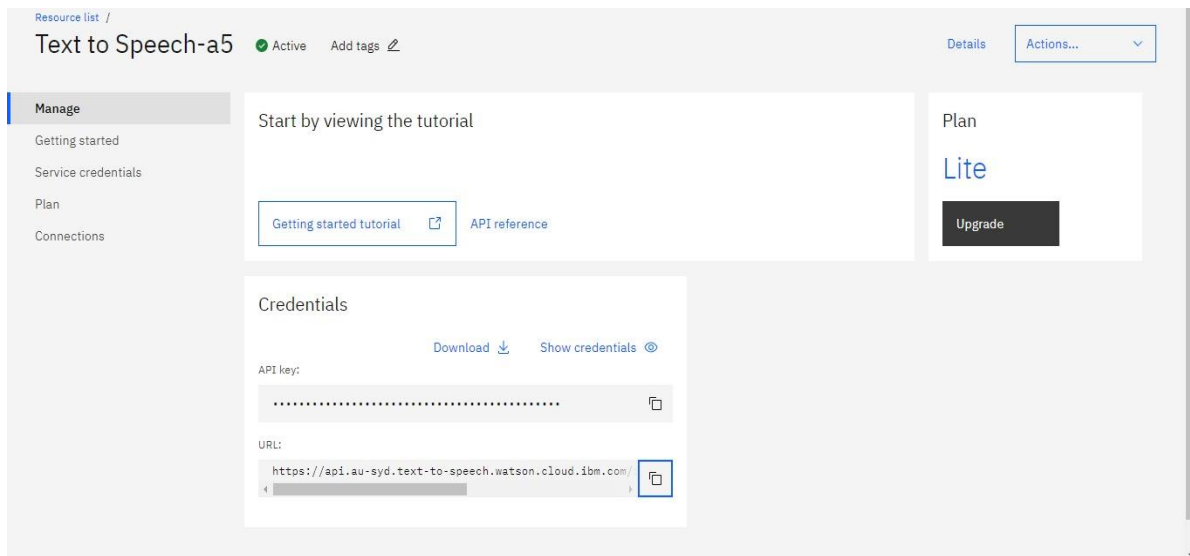
## Creating IBM WatsonIoT Platform and device:



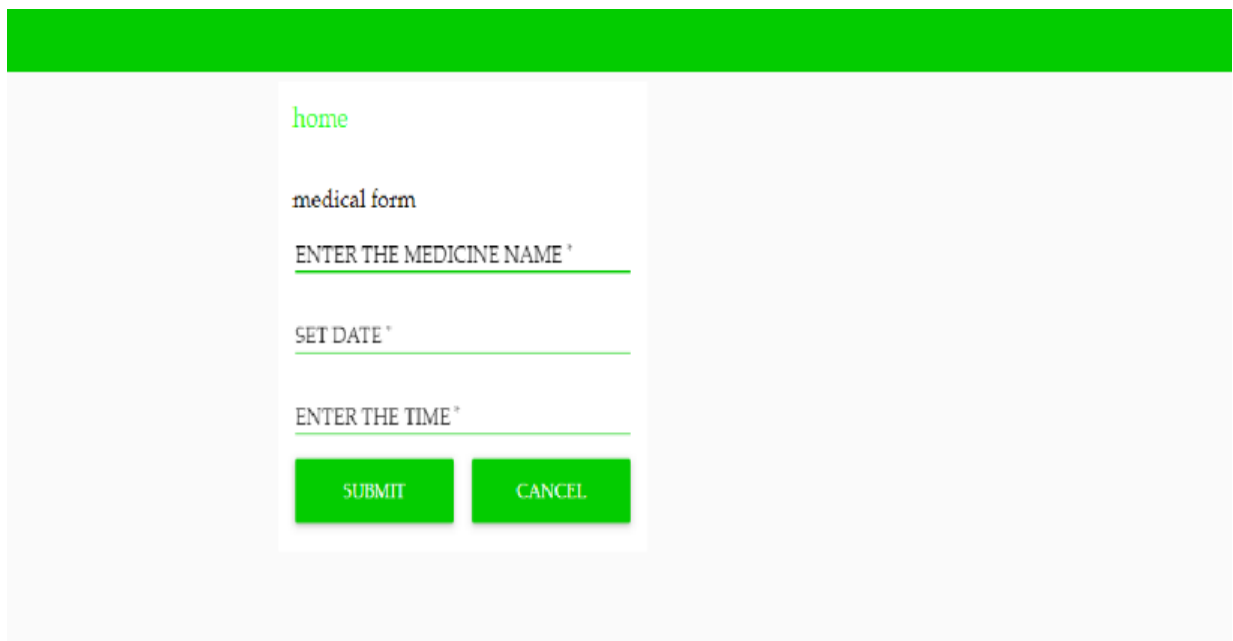
## Creating Node-RED Service:



## Creating Text to Speech Service:



## APP:



Patient Name

Medicine Name

Medicine Quantity

Type

SAVE

**SET ALERT MESSAGE :**

enter tablet name

ENTER THE HOURS <input type="text"/>	ENTER THE MINS <input type="text"/>
---	--

SAVE