

SPRINT-4

Date	09 November 2022
Team ID	PNT2022TMID420623
Project Name	Personal Assistance for Seniors who are Self-Reliant

CASE:

To develop a python script to receive data from node-red by using IBM Watson IoT platform

INPUT:

Medicine Remainder

Medicine Data

Enter the Medicine Name
DOLO

Time(HH:MM)
18:26

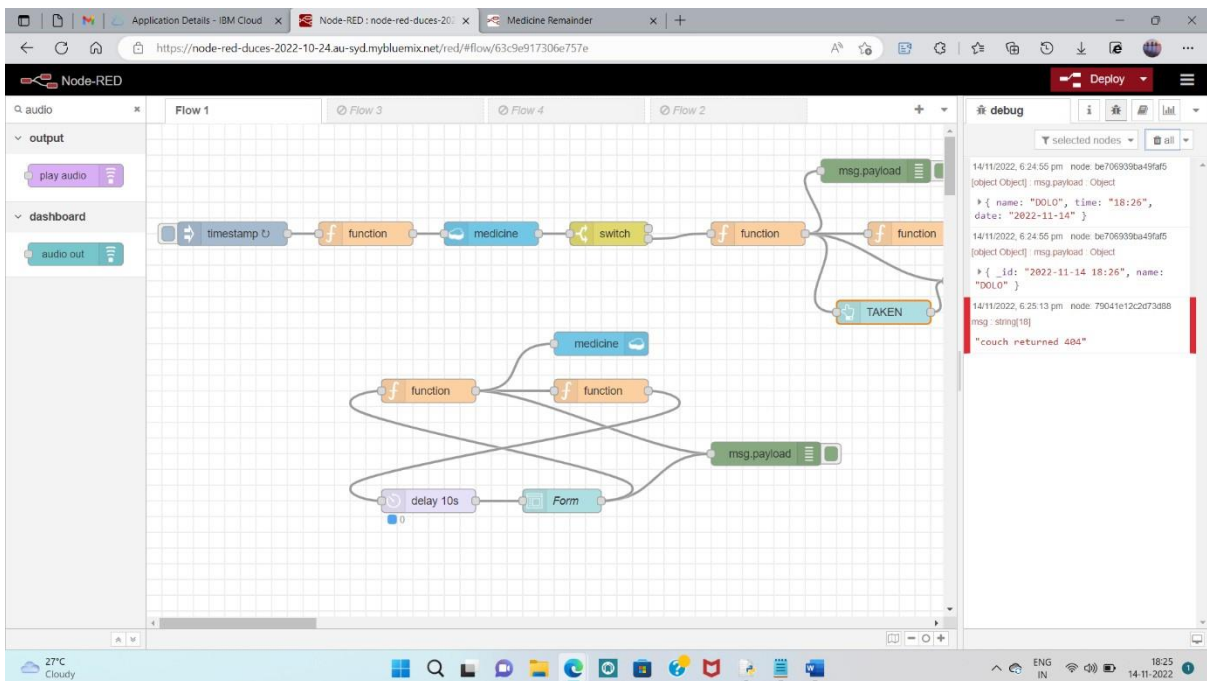
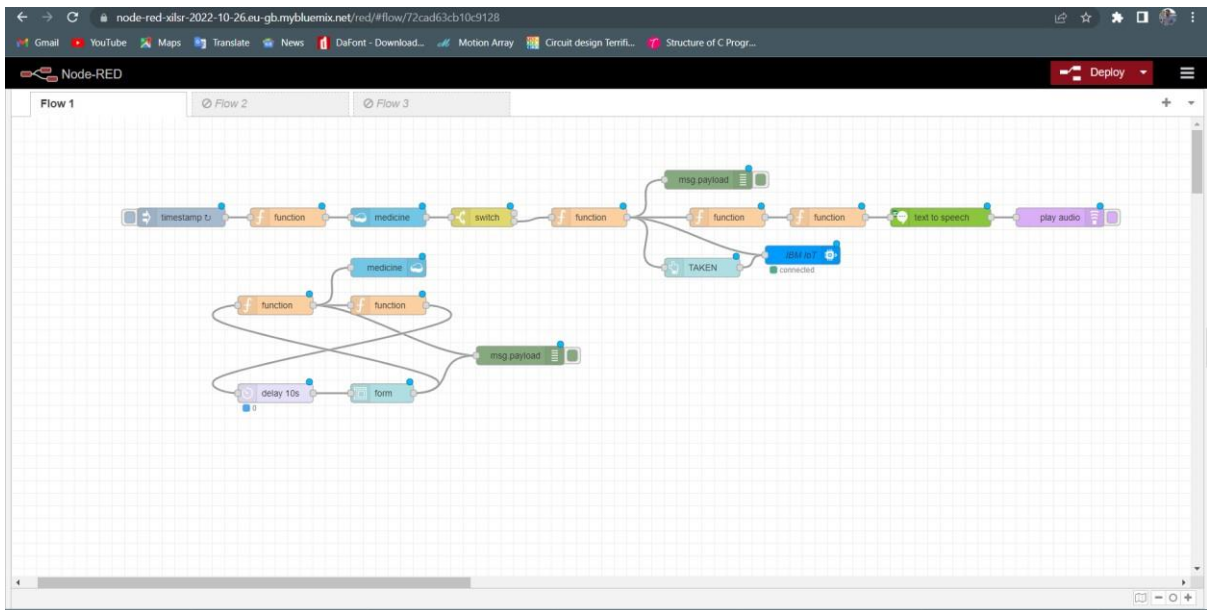
Date(YYYY-MM-DD)
2022-11-14

SUBMIT CANCEL

NOTIFY US

TAKEN

NODE RED FLOW AND OUTPUT:



IoT OUTPUT:

The screenshot displays a web application for managing IoT devices. The main interface shows a list of devices with the following columns: Device ID, Status, Device Type, Class ID, Date Added, and Descriptive Location. Two devices are listed: Device 1000 (Disconnected) and Device 1100 (Connected). Device 1100 is selected, and its details are shown in a modal window. The modal has tabs for Identity, Device Information, Recent Events, State, and Logs. The Recent Events tab is active, showing a table of events with the following columns: Event, Value, Format, and Last Received. The events are test messages with JSON data.

Event	Value	Format	Last Received
test	{"type":"Buffer","data":[34,122,46,109,112,51,3...]	json	a few seconds ago
test	{"type":"Buffer","data":[34,122,46,109,112,51,3...]	json	a few seconds ago
test	{"type":"Buffer","data":[34,122,46,109,112,51,3...]	json	a few seconds ago
test	{"type":"Buffer","data":[34,122,46,109,112,51,3...]	json	a few seconds ago
test	{"type":"Buffer","data":[34,122,46,109,112,51,3...]	json	a few seconds ago

PYTHON SCRIPT: import wiotp.sdk.device import time import
random import playsound from datetime import datetime from
ibm_watson import TextToSpeechV1 from

```
ibm_cloud_sdk_core.authenticators import IAMAuthenticator
```

```
myConfig = {  
    "identity": {  
        "orgId": "pje2x1",  
        "typeId": "Test1",  
        "deviceId": "555"  
    },  
    "auth": {  
        "token": "Thiyagu@21"  
    }  
}
```

```
def myCommandCallback(cmd):    print("Message received from IBM IoT  
Platform: %s" % cmd.data['command'])    m=cmd.data['command']  
if(m=="Medicine Taken"):    print("Medicine Intaken")  
    else:  
        print("*****")  
print("Take Your Medicine")  
print("*****")
```

```
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)  
client.connect()
```

```
authenticator = IAMAuthenticator('07htoTDmIEvOF75vmA5YDyCz7mIINscQ0zbrT2p-vrNm')  
text_to_speech = TextToSpeechV1(    authenticator=authenticator  
)
```

```
text_to_speech.set_service_url('https://api.eu-gb.text-to-  
speech.watson.cloud.ibm.com/instances/3346a3b2-4ad2-4fc1-a1f4-c78784c1e0b8')
```

```

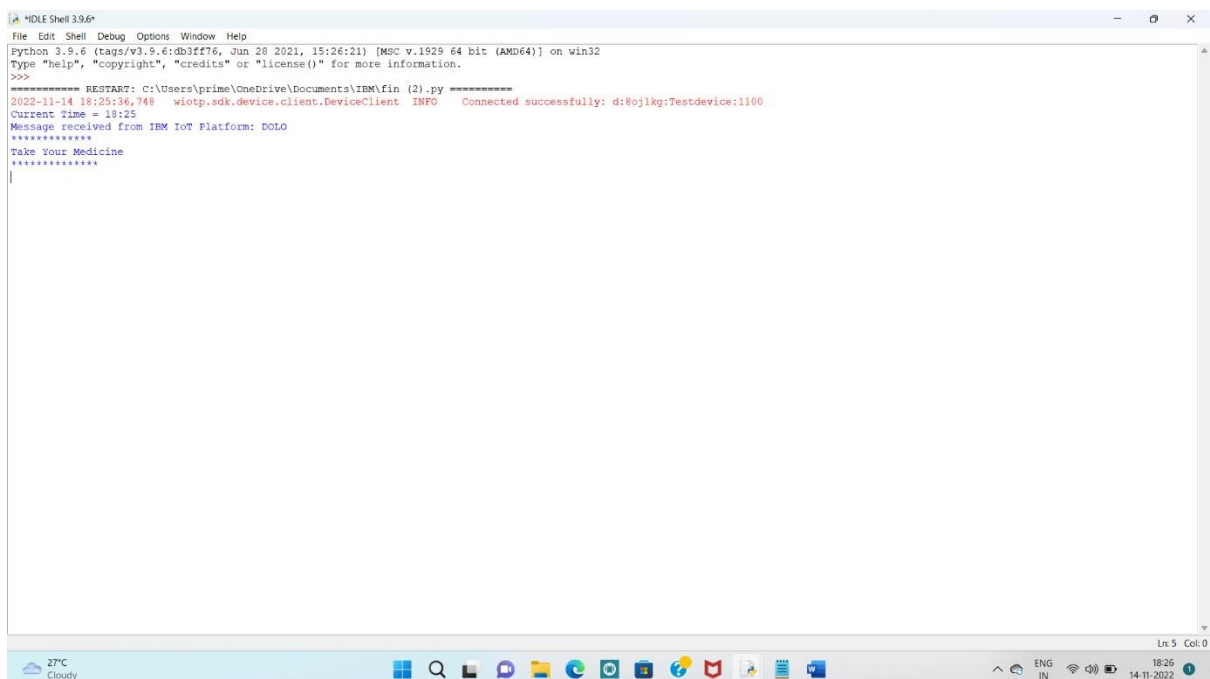
now = datetime.now() current_time =
now.strftime("%H:%M") print("Current
Time =", current_time)

while True: with open('z.mp3','wb')
as audio_file:
    audio_file.write(
text_to_speech.synthesize(
'take your respected medicine',
voice='en-US_AllisonV3Voice',
accept='audio/wav'
).get_result().content)

client.publishEvent(eventId="test", msgFormat="json", data="z.mp3", qos=0, onPublish=None)
client.commandCallback = myCommandCallback
client.disconnect()

```

OUTPUTS:



```

IDLE Shell 3.9.6
File Edit Shell Debug Options Window Help
Python 3.9.6 (tags/v3.9.6:db3ff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\prime\OneDrive\Documents\IBM\fin (2).py =====
2022-11-14 18:25:36,748 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:8oj1kg:Testdevice:1100
Current Time = 18:25
Message received from IBM IoT Platform: DOLO
*****
Take Your Medicine
*****
|

```

```
*IDLE Shell 3.9.6*
File Edit Shell Debug Options Window Help
Python 3.9.6 (tags/v3.9.6:db3ff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AMD64)] on win32
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Current Time = 18:25
Message received from IBM IoT Platform: DOLO
*****
Take Your Medicine
*****
Message received from IBM IoT Platform: Medicine Taken
Medicine Intaken
Thank You!!
```

Ln 11 Col 0

27°C Cloudy

ENG IN 18:27 14-11-2022