

## Sprint-3

|               |  |
|---------------|--|
| Date          | 13 November 2022                                     |
| Team ID       | PNT2022TMID08180                                     |
| Project Name  | Personal Assistance for Seniors Who Are Self-Reliant |
| Maximum Marks | 4 Marks  |

**At desired time the medicine name has been send to IOT device in the IBM IOT Platform**

The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar labeled 'Search by Device ID' is present. Below the navigation bar, a table lists devices with columns: Device ID, Status, Device Type, Class ID, Date Added, and Descriptive Location. Two devices are listed: one with ID 131519 (Disconnected, Esp32) and another with ID 200119 (Connected, Arduino). The 'Connected' device 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 columns: Event, Value, Format, and Last Received. One event is listed: 'event\_1' with a value of '{\"command\": \"Azithromycin\"}' in json format, received 'a few seconds ago'. A status bar at the bottom indicates '1 Simulation running'.

| Device ID | Status       | Device Type | Class ID | Date Added           | Descriptive Location |
|-----------|--------------|-------------|----------|----------------------|----------------------|
| 131519    | Disconnected | Esp32       | Device   | Oct 21, 2022 7:27 AM |                      |
| 200119    | Connected    | Arduino     | Device   | Oct 3, 2022 7:52 PM  |                      |

| Event   | Value                           | Format | Last Received     |
|---------|---------------------------------|--------|-------------------|
| event_1 | {\"command\": \"Azithromycin\"} | json   | a few seconds ago |

**Python script to subscribe to the IBM IoT platform & Generate voice alerts**

```
python script.py - C:\Users\shree\AppData\Local\Programs\Python\Python37\python script.py (3.7.0)
File Edit Format Run Options Window Help

import time
import sys
import ibmiotf.application
import ibmiotf.device
import IAMAuthenticator

#Provide your IBM Watson Device Credentials
organization = "qxzu5g"
deviceType = "Arduino"
deviceId = "200119"
authMethod = "token"
authToken = "1910231709"

authenticator = IAMAuthenticator('ecfoDiyoaIuYMB8g_s4FRDrqzoR8QnofAYmuCoCNVVGn')
text_to_speech = TextToSpeechV1(
    authenticator=authenticator
)

text_to_speech.set_service_url('https://api.eu-de.text-to-speech.watson.cloud.ibm.com/instances/508c5a8d-2a16-4716-98e3-e4c820611ecf')
print("Medicine time....")
time.sleep(1)

try:
    deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod, "auth-token": authToken}
    deviceCli = ibmiotf.device.Client(deviceOptions)
    #.....

except Exception as e:
    print("Caught exception connecting device: %s" % str(e))
    sys.exit()

deviceClient.connect()
while True:
    #Get events from ibm iot
    def myEventCallback(event):
        str = "%s event '%s' received from device [%s]: %s"
        print(str % (event.format, event.eventId, event.device, json.dumps(event.data)))

    success = deviceClient.subscribeToDeviceEvents("IoTSensor", "json", data, qos=0, on_event=myEventCallback)
    if not success:
        print("Not connected to IoT")
        time.sleep(1)
    deviceClient.deviceEventCallback = myEventCallback
# Disconnect the device and application from the cloud
deviceClient.disconnect()
```

## Python Script Output, which displays the medicine name received by IOT device in the IBM IOT Platform

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
=== RESTART: C:\Users\shree\AppData\Local\Programs\Python\Python37\pro.py ===
Medicine time....
JSON event event_1 received from device [Arduino]: 'command' : 'Asithromycin'
```