

Sprint -4

Team ID	PNT2022TMID39437
Project Name	Project – Personal Assistance for Seniors Who are Self Reliant

Installation of Wiotp.sdk.device:

Code:

Pip install wiotp-sdk

Result:

```
Command Prompt
Microsoft Windows [Version 10.0.19044.2251]
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C:\Users\Chithra>pip install wiotp-sdk
Collecting wiotp-sdk
  Downloading wiotp-sdk-0.11.0.tar.gz (96 kB)
    ----- 96.2/96.2 kB 914.3 kB/s eta 0:00:00
  Preparing metadata (setup.py) ... done
Requirement already satisfied: iso8601>=0.1.12 in c:\users\chithra\appdata\local\programs\python\python37\lib\site-packages (from wiotp-sdk) (1.1.0)
Requirement already satisfied: pytz>=2018.9 in c:\users\chithra\appdata\local\programs\python\python37\lib\site-packages (from wiotp-sdk) (2022.6)
Collecting pyyaml>=3.13
  Downloading PyYAML-6.0-cp37-cp37m-win_amd64.whl (153 kB)
    ----- 153.2/153.2 kB 1.0 MB/s eta 0:00:00
Requirement already satisfied: paho-mqtt>=1.5.0 in c:\users\chithra\appdata\local\programs\python\python37\lib\site-packages (from wiotp-sdk) (1.6.1)
Requirement already satisfied: requests>=2.21.0 in c:\users\chithra\appdata\local\programs\python\python37\lib\site-packages (from wiotp-sdk) (2.28.1)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\users\chithra\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (0.10.1)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\chithra\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (1.26.12)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\chithra\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (2022.9.24)
Requirement already satisfied: idna<4,>=2.5 in c:\users\chithra\appdata\local\programs\python\python37\lib\site-packages (from requests>=2.21.0->wiotp-sdk) (3.4)
Installing collected packages: pyyaml, wiotp-sdk
  DEPRECATION: wiotp-sdk is being installed using the legacy 'setup.py install' method, because it does not have a 'pyproject.toml' and the 'wheel' package is not installed. pip 23.1 will enforce t
his behaviour change. A possible replacement is to enable the '--use-pep517' option. Discussion can be found at https://github.com/pypa/pip/issues/8559
  Running setup.py install for wiotp-sdk ... done
Successfully installed pyyaml-6.0 wiotp-sdk-0.11.0
```

Python code :

```
import json

import wiotp.sdk.device

import time

import random

myConfig = {

    "identity": {

        "orgId": "ja4s7f",
```

```
"typeId": "abc12",
"deviceId": "3456"
},
"auth": {
"token": "12345678"
}
}

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

for i in range(0,20):
    tablet=["crosin","Aspirin","Paracetamol","Nitrest"]
    medicinetime=[1.30,4.10,7.40,9.70,15.00,22.00,23.00]
    name = "Chandru"
    medicine=random.choice(tablet)
    medicinetime=random.choice(medicinetime)
    mydata = {'Patient Name': name, 'Medicine Name': medicine, 'Time': medicinetime}
    client.publishEvent("IoTSensor", "json", data=mydata, qos=0, onPublish=None)
    print("Data published to IBM IOT platform :", mydata)
    time.sleep(5)
client.disconnect()
```

medical_reminder.py - C:/Users/Chithra/AppData/Local/Programs/Python/Python37/medical_reminder.py (3.7.0)

File Edit Format Run Options Window Help

```
import json
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "ja4s7f",
        "typeId": "abc12",
        "deviceId": "3456"
    },
    "auth": {
        "token": "12345678"
    }
}
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
for i in range(0,20):
    tablet=["crosin","Aspirin","Paracetamol","Nitrest"]
    medicinetime=[1.30,4.10,7.40,9.70,15.00,22.00,23.00]
    name = "Chandru"
    medicine=random.choice(tablet)
    medicinetime=random.choice(medicinetime)
    mydata = {'Patient Name': name, 'Medicine Name': medicine, 'Time': medicinetime}
    client.publishEvent("IoTSensor", "json", data=mydata, qos=0, onPublish=None)
    print("Data published to IBM IOT platform :", mydata)
    time.sleep(5)
client.disconnect()
```

Output:

```
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/Chithra/AppData/Local/Programs/Python/Python37/medical_reminder.py
2022-11-19 20:34:20,249 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:ja4s7f:abc12:3456Data published to IBM IOT platform :
({'Patient Name': 'Chandru', 'Medicine Name': 'Paracetamol', 'Time': 7.4})
Data published to IBM IOT platform : ('Patient Name': 'Chandru', 'Medicine Name': 'crosin', 'Time': 7.4)
Data published to IBM IOT platform : ('Patient Name': 'Chandru', 'Medicine Name': 'Aspirin', 'Time': 7.4)
Data published to IBM IOT platform : ('Patient Name': 'Chandru', 'Medicine Name': 'Aspirin', 'Time': 23.0)
Data published to IBM IOT platform : ('Patient Name': 'Chandru', 'Medicine Name': 'Aspirin', 'Time': 9.7)
Data published to IBM IOT platform : ('Patient Name': 'Chandru', 'Medicine Name': 'Paracetamol', 'Time': 1.3)
Data published to IBM IOT platform : ('Patient Name': 'Chandru', 'Medicine Name': 'crosin', 'Time': 23.0)
Data published to IBM IOT platform : ('Patient Name': 'Chandru', 'Medicine Name': 'Nitrest', 'Time': 4.1)
Data published to IBM IOT platform : ('Patient Name': 'Chandru', 'Medicine Name': 'crosin', 'Time': 15.0)
Data published to IBM IOT platform : ('Patient Name': 'Chandru', 'Medicine Name': 'crosin', 'Time': 4.1)
Data published to IBM IOT platform : ('Patient Name': 'Chandru', 'Medicine Name': 'Paracetamol', 'Time': 4.1)
Data published to IBM IOT platform : ('Patient Name': 'Chandru', 'Medicine Name': 'Paracetamol', 'Time': 4.1)
Data published to IBM IOT platform : ('Patient Name': 'Chandru', 'Medicine Name': 'Nitrest', 'Time': 9.7)
Data published to IBM IOT platform : ('Patient Name': 'Chandru', 'Medicine Name': 'Paracetamol', 'Time': 7.4)
Data published to IBM IOT platform : ('Patient Name': 'Chandru', 'Medicine Name': 'Nitrest', 'Time': 7.4)
Data published to IBM IOT platform : ('Patient Name': 'Chandru', 'Medicine Name': 'Nitrest', 'Time': 4.1)
Data published to IBM IOT platform : ('Patient Name': 'Chandru', 'Medicine Name': 'Nitrest', 'Time': 1.3)
Data published to IBM IOT platform : ('Patient Name': 'Chandru', 'Medicine Name': 'Nitrest', 'Time': 22.0)
Data published to IBM IOT platform : ('Patient Name': 'Chandru', 'Medicine Name': 'Nitrest', 'Time': 1.3)
Data published to IBM IOT platform : ('Patient Name': 'Chandru', 'Medicine Name': 'Nitrest', 'Time': 1.3)
2022-11-19 20:36:00,870 wiotp.sdk.device.client.DeviceClient INFO Disconnected from the IBM Watson IoT Platform
2022-11-19 20:36:00,880 wiotp.sdk.device.client.DeviceClient INFO Closed connection to the IBM Watson IoT Platform
>>>
```