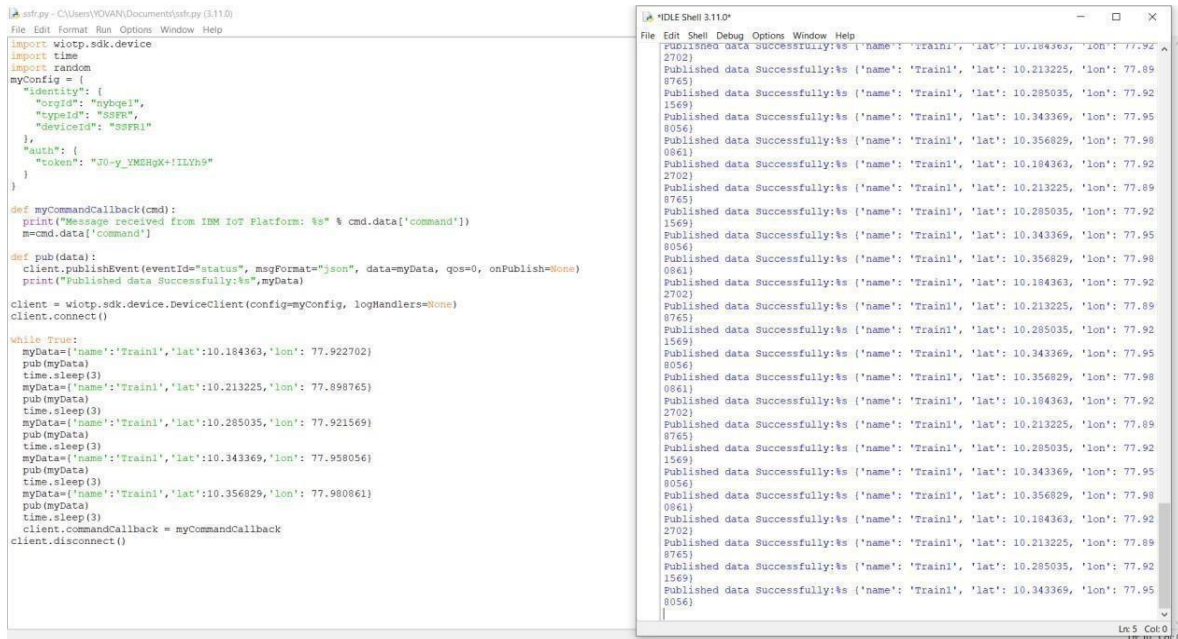


TESTING OF WEB UI

Date	19 November 2022
Team ID	PNT2022TMID37118
Project Name	Project – Smart Solution For Railways



The image shows a Python script in a text editor and its execution output in a terminal window. The script is a Python 3.11.0 file named 'sstr.py' located at 'C:\Users\YOVAN\Documents\sstr.py'. It uses the 'wiottp.sdk.device' module and imports 'time' and 'random'. The script defines a 'myConfig' dictionary with 'identity' (containing 'orgId', 'typeId', and 'deviceId') and 'auth' (containing 'token'). It defines a 'myCommandCallback' function that prints a message and a 'pub' function that publishes data to the IoT platform. The script then creates a 'client' object, connects to the IoT platform, and enters a loop where it publishes data every 3 seconds. The data consists of a name 'Train1' and coordinates (lat, lon) that change in each iteration. The terminal window shows the output of the script, displaying the published data for each iteration.

```
File Edit Format Run Options Window Help
sstr.py - C:\Users\YOVAN\Documents\sstr.py (3.11.0)
import wiottp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "mybqei",
        "typeId": "SSFE",
        "deviceId": "SSFE1"
    },
    "auth": {
        "token": "J0-y_YMEHgX+ILYh9"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']

def pub(data):
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Published data Successfully:%s",myData)

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

while True:
    myData={'name':'Train1','lat':10.184363,'lon': 77.922702}
    pub(myData)
    time.sleep(3)
    myData={'name':'Train1','lat':10.213225,'lon': 77.898765}
    pub(myData)
    time.sleep(3)
    myData={'name':'Train1','lat':10.285035,'lon': 77.921569}
    pub(myData)
    time.sleep(3)
    myData={'name':'Train1','lat':10.343369,'lon': 77.958056}
    pub(myData)
    time.sleep(3)
    myData={'name':'Train1','lat':10.356829,'lon': 77.980861}
    pub(myData)
    time.sleep(3)
    client.commandCallback = myCommandCallback
client.disconnect()
```

```
File Edit Shell Debug Options Window Help
IDLE Shell 3.11.0
Published data Successfully:{"name": "Train1", "lat": 10.184363, "lon": 77.922702}
Published data Successfully:{"name": "Train1", "lat": 10.213225, "lon": 77.898765}
Published data Successfully:{"name": "Train1", "lat": 10.285035, "lon": 77.921569}
Published data Successfully:{"name": "Train1", "lat": 10.343369, "lon": 77.958056}
Published data Successfully:{"name": "Train1", "lat": 10.356829, "lon": 77.980861}
Published data Successfully:{"name": "Train1", "lat": 10.184363, "lon": 77.922702}
Published data Successfully:{"name": "Train1", "lat": 10.213225, "lon": 77.898765}
Published data Successfully:{"name": "Train1", "lat": 10.285035, "lon": 77.921569}
Published data Successfully:{"name": "Train1", "lat": 10.343369, "lon": 77.958056}
Published data Successfully:{"name": "Train1", "lat": 10.356829, "lon": 77.980861}
Published data Successfully:{"name": "Train1", "lat": 10.184363, "lon": 77.922702}
Published data Successfully:{"name": "Train1", "lat": 10.213225, "lon": 77.898765}
Published data Successfully:{"name": "Train1", "lat": 10.285035, "lon": 77.921569}
Published data Successfully:{"name": "Train1", "lat": 10.343369, "lon": 77.958056}
Published data Successfully:{"name": "Train1", "lat": 10.356829, "lon": 77.980861}
Published data Successfully:{"name": "Train1", "lat": 10.184363, "lon": 77.922702}
Published data Successfully:{"name": "Train1", "lat": 10.213225, "lon": 77.898765}
Published data Successfully:{"name": "Train1", "lat": 10.285035, "lon": 77.921569}
Published data Successfully:{"name": "Train1", "lat": 10.343369, "lon": 77.958056}
Published data Successfully:{"name": "Train1", "lat": 10.356829, "lon": 77.980861}
Ln 5 Col 0
Ln 10 Col 0
```

[Browse](#)
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[Interfaces](#)

Search by Device ID

Device Simulator
 100%
U

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
> <input type="checkbox"/>	Jeeva_Yovan	Disconnected	Watson	Device	28 Oct 2022 19:58	
▼ <input checked="" type="checkbox"/>	SSFR1	Connected	SSFR	Device	16 Nov 2022 10:32	→ ...

Identity Device Information Recent Events State Logs X

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
status	{"name":"Train1","lat":10.285035,"lon":77.9215...	json	a few seconds ago
status	{"name":"Train1","lat":10.213225,"lon":77.8987...	json	a few seconds ago
status	{"name":"Train1","lat":10.184363,"lon":77.9227...	json	a few seconds ago
status	{"name":"Train1","lat":10.356829,"lon":77.9808...	json	a few seconds ago
status	{"name":"Train1","lat":10.343369,"lon":77.9580...	json	a few seconds ago

0 Simulations running

Node-RED interface showing a flow with an IBM IoT node connected to a debug node and a worldmap node. The debug console displays a series of JSON messages containing location data for a "Train1" node, including name, latitude, and longitude.

```
iot-2/type/SSFRid/SSFR1/ev/status/mtl/json :  
msg payload : Object  
{  
  name: "Train1",  
  lat: 10.184363,  
  lon: 77.922702  
}  
16/11/2022, 11:06:53 am node: debug 1  
iot-2/type/SSFRid/SSFR1/ev/status/mtl/json :  
msg payload : Object  
{  
  name: "Train1",  
  lat: 10.213225,  
  lon: 77.898765  
}  
16/11/2022, 11:06:55 am node: debug 1  
iot-2/type/SSFRid/SSFR1/ev/status/mtl/json :  
msg payload : Object  
{  
  name: "Train1",  
  lat: 10.285035,  
  lon: 77.921569  
}  
16/11/2022, 11:06:57 am node: debug 1  
iot-2/type/SSFRid/SSFR1/ev/status/mtl/json :  
msg payload : Object  
{  
  name: "Train1",  
  lat: 10.343369,  
  lon: 77.958056  
}  
16/11/2022, 11:07:00 am node: debug 1  
iot-2/type/SSFRid/SSFR1/ev/status/mtl/json :  
msg payload : Object  
{  
  name: "Train1",  
  lat: 10.356829,  
  lon: 77.980861  
}  
16/11/2022, 11:07:03 am node: debug 1  
iot-2/type/SSFRid/SSFR1/ev/status/mtl/json :  
msg payload : Object  
{  
  name: "Train1",  
  lat: 10.184363,  
  lon: 77.922702  
}
```

Live Status section showing a map titled "Tracking". The map displays a geographical area with various locations marked, including Southampton, Winchester, and Basingstoke. The map is sourced from OpenStreetMap contributors.

