

## 1. Project Development phase

Date	14 November 2022
Team ID	PNT2022TMID38287
Project Name	Project – SMART SOLUTIONS FOR RAILWAYS
Maximum Marks	4 Marks

### Delivering of Sprint-1

#### IBM Cloud Services:

##### Devices:

- To create IBM Watson IOT platform for creating a Device ☐ After add the device.
- Send the location to the node red map.

#### Python test code:(sending location to IBM watson)

```
import wiotp.sdk.device import time import random
```

```
myConfig = {  
    "identity": {  
        "orgId": "k2m20e",  
        "typeId": "NodeMCU",  
        "deviceId": "12345"  
    },  
    "auth": {  
        "token": "12345678"  
    }  
}
```

```

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

client = wiotp.sdk.device.DeviceClient (config=myConfig, logHandlers=None)
client.connect()
def pub (data):
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0)

    print("Published data Successfully: %s", myData)
while True:
    myData={'name': 'Train1', 'lat': 13.000988 , 'lon': 77.674746 }
    pub (myData)
    time.sleep(3)

    myData={'name': 'Train1', 'lat': 13.104706 , 'lon': 77.591532 }
    pub (myData)
    time.sleep(3)

    myData={'name': 'Train1', 'lat': 13.818805 , 'lon': 77.500015 }
    pub (myData)
    time.sleep (3)

    myData={'name': 'Train1', 'lat': 15.396830 , 'lon': 77.864205}
    pub (myData)
    time.sleep(3)

    myData={'name': 'Train1', 'lat': 16.757347 , 'lon': 77.999011}
    pub (myData)
    time.sleep(3)

    myData={'name': 'Train1', 'lat': 17.389526 , 'lon': 78.499394}
    pub (myData)
    time.sleep(3)
    client.commandCallback = myCommandCallback

client.disconnect()

```



