

SPRINT 1

Team ID	PNT2022TMID15198
Project Name	IoT Based Safety Gadget for Child Safety Monitoring & Notification

Creation of Device in Watson IoT Platform

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar is present with the text 'Search by Device ID'. The main content area displays a table of devices. The first device listed is 'esp-vlsm', which is 'Connected' and of type 'ESP'. Below the device list, there is a section for 'Recent Events' showing a stream of data. The events table has columns for 'Event', 'Value', 'Format', and 'Last Received'. The events are all 'status' updates with JSON data. At the bottom of the interface, a status bar indicates '0 Simulations running'.

Developing The Python Script

```
pythoncode.py - G:\ibm\Develop the python script\pythoncode.py (3.7.0)
File Edit Format Run Options Window Help

import json
import wiotp.sdk.device
import time
import ibmiotf.application
import ibmiotf.device

myConfig = {
    "identity": {
        "orgId": "jm6fjh",
        "typeId": "ESP",
        "deviceId": "esp-vlsm"
    },
    "auth": {
        "token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1b290eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9"
    }
}

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

while True:
    name = "Vishal"

    latitude = 11.055712
    longitude = 76.804089
    mydata = {'name': name, 'lat': latitude, 'lon': longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=mydata, qos=0, onPublish=None)
    print("Data published to IBM IoT platform: ", mydata)
    time.sleep(20)

client.disconnect()
```

Configure the Node-Red App

API key was generated for the device in Watson IoT and used in the Node-Red Application

