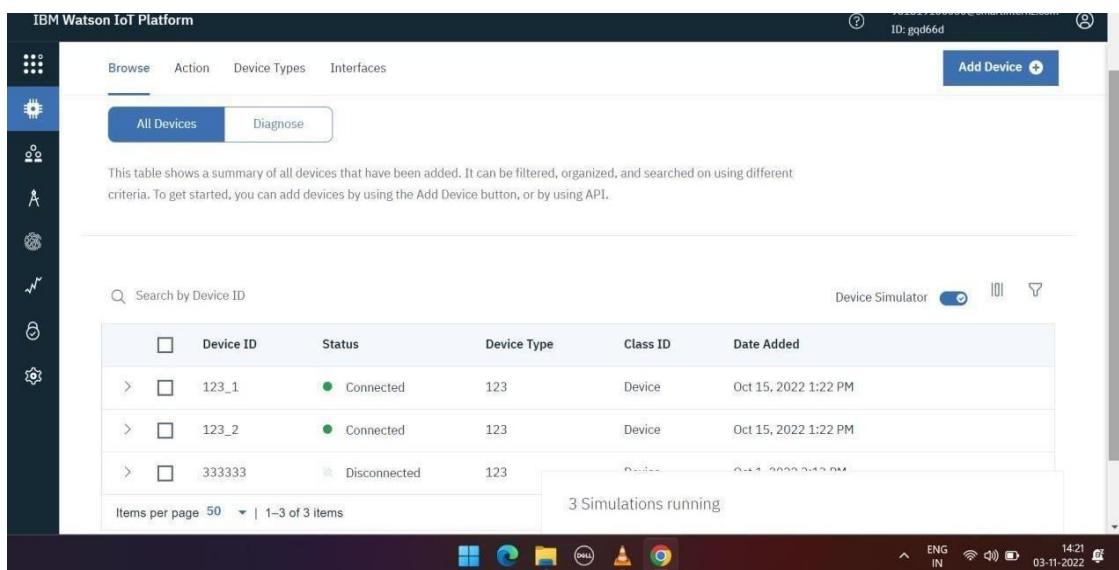


Safety Gadget for Child Safety Monitoring and Notification

SPRINT 1

TEAM ID	PNT2022TMID00858
Project Name	IOT-BASED CHILD MONITORING SYSTEM SURVEY USING THE RASPBERRY Pi

Creating IBM Cloud Service and creating the device:



The screenshot shows the IBM Watson IoT Platform interface. On the left is a vertical sidebar with icons for Home, Devices, Rules, Insights, and Settings. The main area has a header with 'IBM Watson IoT Platform' and a user ID 'ID: gqd66d'. Below the header are tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces', with 'Browse' selected. A blue button 'Add Device' is in the top right. Underneath is a sub-header with 'All Devices' (which is highlighted in blue) and 'Diagnose'. A message states: 'This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.' A search bar 'Search by Device ID' is at the top of the table. The table has columns: 'Device ID', 'Status', 'Device Type', 'Class ID', and 'Date Added'. It lists three devices: '123_1' (Connected, Device, Class ID 123, Oct 15, 2022), '123_2' (Connected, Device, Class ID 123, Oct 15, 2022), and '333333' (Disconnected, Device, Class ID 123, Oct 15, 2022). At the bottom of the table, it says 'Items per page: 50 | 1–3 of 3 items'. A note '3 Simulations running' is visible. The bottom of the screen shows a taskbar with icons for Windows, Edge, File Explorer, Dell, VLC, and Google Chrome, along with system status indicators like battery level, signal strength, and date/time.

Creating Python Code:

python.py - C:/Users/PRINCE/AppData/Local/Programs/Python/Python37/python.py (3.7.0)

```
File Edit Format Run Options Window Help
import wiotp.sdk.device
import json
import time
import random

myConfig = {
    #Configuration
    "identity": {
        "orgId": "ggd66d",
        "typeId": "123",
        "deviceId": "123456"
    },
    #API Key
    "auth": {
        "token": "12345678"
    }
}

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

while True:
    name="Child Location"
    latitude= random.uniform(8,9)#Random latitude value
    longitude= random.uniform(77,78)#Random longitude value
    #Data in json format
    myData={'name': name, 'lat': latitude, 'lon': longitude}
    #Publishing the data to the IoT Watson device
    client.publishEvent(eventId="status", msgFormat="json",data=myData, qos=0, onPublish= None)
    print("Data published to IBM IoT platform: ",myData)
    time.sleep(5)
#disconnecting the device
client.disconnect()

Activate Windows
Go to PC settings to activate Windows.
Ln: 24 Col: 30
```

Connecting IBM Watson and python Code:

The screenshot shows the IBM Watson IoT Platform interface. At the top, there's a navigation bar with 'Browse' (selected), 'Action', 'Device Types', and 'Interfaces'. On the right, there are buttons for 'Add Device' and a user ID 'ID: gqd66d'. Below the navigation is a table for a device with ID '123456'. The table columns are 'Device ID', 'Status' (Connected), 'Device Type' (123), 'Class ID' (Device), and 'Date Added' (Nov 11, 2022 12:12 PM). Underneath the table is a navigation bar with tabs: 'Identity' (selected), 'Device Information', 'Recent Events', 'State', and 'Logs'. A note below the tabs says: 'The recent events listed show the live stream of data that is coming and going from this device.' Below this note is a table of recent events:

Event	Value	Format	Last Received
status	{"name": "Child Location", "lat": 8.82075767890...}	json	a few seconds ago
status	{"name": "Child Location", "lat": 8.092005691881...}	json	a few seconds ago
status	{"name": "Child Location", "lat": 8.106381618799...}	json	a few seconds ago
status	{"name": "Child Location", "lat": 8.203007384691...}	json	a few seconds ago

On the right side of the interface, there's a sidebar with various icons: a magnifying glass, a gear, a bar chart, a line graph, a person icon, a gear, and a settings gear. At the bottom right, there's a message: 'Activate Windows Go to PC settings to activate Windows.' The taskbar at the bottom shows several open application icons.

