

Project Development –Delivery plan sprint-2

IoT Based Safety Gadget for Child Safety Monitoring & Notification

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Creating and Connecting IBM cloud for Project and Python Code

Creating IBM Cloud Service and creating the device:

The image displays two screenshots of the IBM Watson IoT Platform interface. The top screenshot shows the 'Equipment' dashboard with a dark theme and a central graphic. The bottom screenshot shows the 'Browse' view of the platform, displaying a table of devices.

IBM Watson IoT Platform - Equipment Dashboard

The dashboard features a central graphic with the word 'Equipment' and the text 'Collect data from' and 'and make value from it'. A 'Learn More' link is visible at the bottom.

IBM Watson IoT Platform - Browse View

The 'Browse' view shows a table of devices. The table has columns for Device ID, Status, Device Type, Class ID, Date Added, and Descriptive Location. A search bar is available at the top.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
12345	Disconnected	NodeMCU	Device	Nov 19, 2022 11:51 AM	

The table also includes a 'Device Information' tab with the following details:

- Device ID: 12345
- Device Type: NodeMCU
- Date Added: Nov 19, 2022 11:51 AM
- Added By: amirtasurya2001@gmail.com
- Connection Status: Disconnected

At the bottom of the interface, it indicates '1 Simulation running'.

Creating Python Code:

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

myConfig = {
    "identity":{
        "orgId": " dtjndm",
        "typeId": "NodeMCU",
        "deviceId": "12345"
    },
    "auth": {
        "token":" ZpMI(1tuH5i)sUReQi"
    }
}

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

while True:
    name= "Smartbridge"
    #in area location

    latitude= 17.4225176
    longitude= 78.5458842

    #out area location

    #latitude= 17.4219272
    #longitude= 78.5488783
    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 platfrom: ", myData)
    time.sleep(5)

client.disconnect()
```

In-Area Location:

[illegible]

Out-Area Location:[illegible]

The screenshot displays the IBM Watson IoT Platform interface. At the top, the browser address bar shows the URL: `dtjndm.internetofthings.ibmcloud.com/dashboard/devices/browse`. The page header includes the IBM Watson IoT Platform logo and navigation tabs: **Browse**, Action, Device Types, and Interfaces. A user profile icon in the top right corner indicates the user is `amitasurya2001@gmail.com` with ID `dtjndm`. An **Add Device** button is also present.

The main content area shows a list of devices. The selected device has the following details:

- Device ID:** 12345
- Status:** Disconnected
- Device Type:** NodeMCU
- Class ID:** Device
- Date Added:** Nov 19, 2022 11:51 AM
- Descriptive Location:** (empty)

Below the device details, a tabbed interface shows the **Recent Events** section. A message states: "The recent events listed show the live stream of data that is coming and going from this device."

The events are listed in a table with the following columns: **Event**, **Value**, **Format**, and **Last Received**.

Event	Value	Format	Last Received
status	<code>{"name":"Smartbridge","lat":17.4225176,"lon":7...</code>	json	a few seconds ago
status	<code>{"name":"Smartbridge","lat":17.4225176,"lon":7...</code>	json	a few seconds ago
status	<code>{"name":"Smartbridge","lat":17.4225176,"lon":7...</code>	json	a few seconds ago
status	<code>{"name":"Smartbridge","lat":17.4225176,"lon":7...</code>	json	a few seconds ago

At the bottom left, the pagination shows "Items per page 50" and "1-1 of 1 item". At the bottom right, a status message indicates "1 Simulation running".