## PROJECT DEVELOPMENT – DELIVERY OF SPRINT – 3

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Team ID	PNT2022TMID46406
Project Title	Signs With Smart Connectivity for Better RoadSafety

## **SPRINT-3 (USN - 5)**

Using GPS module, hospitals & school areas are tracked and data is gathered then it's execute in a web user interface.

## **STEP 1:** Developing a python script from Open Weather API.

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sprint3.py - C:\Users\ADMIN\Desktop\sprint3.py (3.7.0)
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 import wiotp.sdk.device
 import requests
 #importing library files for connecting with CLOUD, sdk=software developement kit import requests
 #for API request import json
 #converting it to json(key:values)
myConfig = {
         "identity": {
                  "orgId": "uaortj",
                  "typeId": "Weather data",
                                                                                   #configuration wit CLOUD, finding identity
                  "deviceId":"Weatherdata"
                },
         "auth": {
                  }
 #TRAFFIC AND FATAL SITUATION ALERT MESSAGE DISPLAYING IN WEB UI WHWN THE
 client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
 #initialising device client with above myconfig detail
 client.connect()
 def myCommandCallback(cmd):
        print("Message received from IBM IoT Platform: %s" %cmd.data['command'])
         m=cmd.data['command']
         ALERT=""
 #THIS IF CONDITION BLOCK IS FOR TRAFFIC AND FATAL SITUATION ALERT MESSAGE DISPLAYING IN WEB UI WHEN THE MESSAGE WAS RECEIVED FROM THE ROAD SAFETY OFFICE
        if (m=="TRAFFIC"):
                ALERT="TRAFFIC - TAKE DIVERSION"
                 print("*****///TAKE DIVERSION///****")
         elif(m=="ACCIDENT"):
                  ALERT="ACCIDENT - TAKE DIVERSION"
                  print("*****///TAKE DIVERSION///****")
                  ALERT="HAVE A NICE DAY!"
                  print ("HAVE A NICE DAY!")
                  mydatal={"SITUATION":ALERT,}
                  client.publishEvent("123456", "json", mydatal)
                  weatherData = requests.get('https://api.openweathermap.org/data/2.5/weather?q=Chennai,IN&appid=b23b5fad240356d80f95242dcfld6cad')
                  b = weatherData.json()
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```

**STEP 2:** By running the above Python Script, we can see the conditions of the current location using Open Weather API and IBM Cloud.

