PROJECT DEVELOPMENT – DELIVERY OF SPRINT – 3

Date	07 November 2022
Team ID	PNT2022TMID25683
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.

```
sprint3.py - C:\Users\ADMIN\Desktop\sprint3.py (3.7.0)
                                                                                                                                                               o X
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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"
        1,
    "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///*****")
   else:
        ALERT="HAVE A NICE DAY!"
        print ("HAVE A NICE DAY!")
        mydatal={"SITUATION":ALERT,}
        client.publishEvent("123456", "json", mydatal)
while True:
        weatherData = requests.get('https://api.openweathermap.org/data/2.5/weather?q=Chennai,IN&appid=b23b5fad240356d80f95242dcfld6cad')
        b = weatherData.json()
        ---- - 1- f Harris - H1 f H----- H
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                                                                                                                             22:30
25°C ^ @ ■ 4× Æ ENG 22:30
18-11-2022
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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.

