

## **Develoement Phase Sprint 2**

Team ID: PNT2022TMID22921

Project Name: Project- Signs with Smart Connectivity for Better Safety

# Main.py

### weather.py

# publishData.py

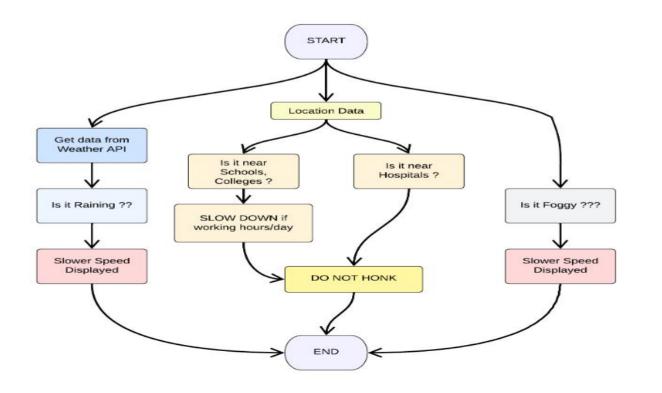
```
main.py
               weather.py 1 • brain.py
                                                publishData.py 1
🌵 publishData.py 🗦 ...
      import wiotp.sdk.device # python -m pip install wiotp
      import time
      myConfig = {
           "identity" : {
               "orgId" : "epmoec",
               "typeId" : "testDevice",
               "deviceId" : "device0"
           "auth" : {
               "token": "?-KDXUPMvDo_TK2&b1"
      def myCommandCallback(cmd):
           print("recieved cmd : ",cmd)
      def logData2Cloud(location,temperature,visibility);
           client = wiotp.sdk.device.DeviceClient(config=myConfig,logHandlers=None)
           client.connect()
           client.publishEvent(eventId="status",msgFormat="json",data={
               "temperature" : temperature,
               "visibility" : visibility,
               "location" : location
           },qos=0,onPublish=None)
           client.commandCallback = myCommandCallback
           client.disconnect()
           time.sleep(1)
 32
```

#### brain.py

```
★ Get Started

              main.py • weather.py 1 • brain.py
brain.py > ...
      import weather
      from datetime import datetime as dt
      # IMPORT SECTION ENDS
      def processConditions(myLocation,APIKEY,localityInfo):
         weatherData = weather.get(myLocation,APIKEY)
          finalSpeed = localityInfo["usualSpeedLimit"] if "rain" not in weatherData else localityInfo["usualSpeedLimit
          finalSpeed = finalSpeed if weatherData["visibility"]>35 else finalSpeed/2
          if(localityInfo["hospitalsNearby"]):
             doNotHonk = True
             if(localityInfo["schools"]["schoolZone"]==False):
                 doNotHonk = False
                 # school zone
                 now = [dt.now().hour,dt.now().minute]
                activeTime = [list(map(int,_.split(":"))) for __in localityInfo["schools"]["activeTime"]]
                 return({
             "speed" : finalSpeed,
             "doNotHonk" : doNotHonk
```

#### Code Flow:





#### output:

# Code Output

2022-11-06 21:38:33,452 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:epmoec:testDevice:device0

2022-11-06 21:38:33,452 wiotp.sdk.device.client.DeviceClient INFO Disconnected from the IBM Watson IoT Platform

2022-11-06 21:38:33,452 wiotp.sdk.device.client.DeviceClient INFO Closed connection to the IBM Watson IoT Platform

{'speed': 40, 'doNotHonk': False}

2022-11-06 21:38:35,631 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:epmoec:testDevice:device0

2022-11-06 21:38:35,631 wiotp.sdk.device.client.DeviceClient INFO Disconnected from the IBM Watson IoT Platform

2022-11-06 21:38:35,631 wiotp.sdk.device.client.DeviceClient INFO Closed connection to the IBM Watson IoT Platform

{'speed': 40, 'doNotHonk': False}

... repeats every 1 sec

# output image:

