**TEAM ID:** PNT2022TMID29745

**PROJECT:** IoT Based safety gadgetfor child safety monitoring and notification.

## Develop a web application using node red service

```
Python script
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "1dsau7"
deviceType = "child"
deviceId = "2502"
authMethod = "token"
authToken = "234567890"
#api key {a-illza1-mbdxqo6z0s}
#api token {zSYzISuAWF&F_x7GkT}
try:
    deviceOptions = {"org": organization, "type": deviceType, "id":
deviceId, "auth-method":authMethod, "auth-token": authToken}
```

```
deviceCli = ibmiotf.device.Client(deviceOptions)
    #....
except Exception as e:
  print("Caught exception connecting device: %s" % str(e))
  sys.exit()
# Connect and send a datapoint "hello" with value "world" into the cloud
as an event of type "greeting" 10 times
print("power on ")
print("checking connection to waston iot...")
time.sleep(2)
deviceCli.connect()
print("dear user ... welcome to IBM-IOT ")
print("i can provide your children live location and temperature ")
name=str(input("enter your child name:"))
while True:
    temperature=random.randint(20,50)#random temperature for your
child
    latitude=random.uniform(10.781377,10.78643)#random latitude for
vour child
    longitude=random.uniform(79.129113,79.134014)#random longitude
for your child
    a="Child inside the geofence"
    b=" Child outside the geofence"
    c="High temperature"
```

```
d="Low temperature"
    x={'your_child_Zone':a}
    y={'your_child_Zone':b}
    z={'temp_condition':c}
    w={'temp_condition':d}
    data = { 'temp' : temperature, 'lat':
latitude,'lon':longitude,'name':name }
    #print data
    def myOnPublishCallback():
     print ("Published Temperature = %s C" % temperature, "latitude =
%s %%" % latitude, "longitude = %s %%" % longitude, "to IBM
Watson'')
     print("\n")
    success = deviceCli.publishEvent("IoTSensorgpsdata", "json", data,
qos=0, on_publish=myOnPublishCallback)
    if latitude>=10.78200 and latitude<=10.786000 and longitude
>=79.130000 and longitude<=79.133000:
deviceCli.publishEvent("IoTSensorgpsdata","json",data=x,qos=0,on_publi
sh=myOnPublishCallback)
        print(x)
        print("\n")
    else:
deviceCli.publishEvent("IoTSensorgpsdata","json",data=y,qos=0,on_publi
```

sh=myOnPublishCallback)

```
print(y)
         print("\n")
    if (temperature>35):
deviceCli.publishEvent("IoTSensorgpsdata","json",data=z,qos=0,on_publi
sh=myOnPublishCallback)
        print(c)
        print("\n")
    else:
deviceCli.publishEvent("IoTSensorgpsdata","json",data=w,qos=0,on_publ
ish=myOnPublishCallback)
        print(d)
        print("\n")
    if not success:
         print("Not connected to IoTF")
        print("\n")
    time.sleep(3)
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```



