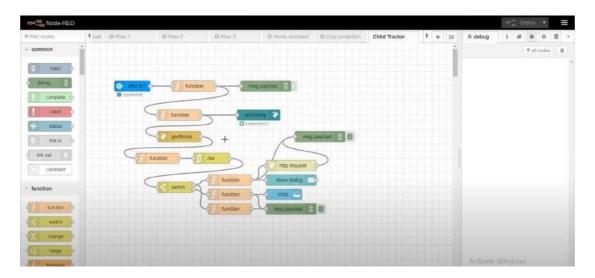
Develop The Web Application Using Node-RED

Team ID	PNT2022TMID11128
Date	18 November 2022
Project Name	IOT Based SafetyGadget for Child
	Safety Monitoringand Notification

To Develop the web application using Node-RED

Steps:

• Open a Node-RED project



Add code to get child location in python

```
import wiotp.sdk.device import time
myConfig = (
     "identity": {
    "orgId": "hj5fmy",
    "typeId": "NodeMcU"
          "deviceId": "12345"
     "auth": {
           "token": "12345678"
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
Thile 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()
```

Python scripts send request to IBM cloud

```
Editor - C:\Users\HP\Desktop\child.py
child.py 🔯
                                                                                                                                                         Console 2/A 🔯
                                                                                                                                                               Data published to IBM IoT platfrom:
1 import json
2 import wiotp.sdk.device
3 import time
                                                                                                                                                               Data published to IBM IoT platfrom:
                                                                                                                                                               Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
                                                                                                                                                               Data published to IBM IoT platfrom:
                                                                                                                                                              Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
               "identity": {
    "orgId": "hj5fmy",
    "typeId": "NodeMCU",
                                                                                                                                                              Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
                     "deviceId": "12345"
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Data published to IBM IoT platfrom:
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11
                                                                                                                                                              Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
                     "token": "12345678"
                                                                                                                                                               Data published to IBM IoT platfrom:
   15 client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
                                                                                                                                                               Data published to IBM IoT platfrom:
   16 client.connect()
                                                                                                                                                              Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
   18 while True:
19 name= "Smartbridge"
20 #In area Location
                                                                                                                                                               Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
                                                                                                                                                               Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
             #Latitude= 17.4225176
                                                                                                                                                               Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
              Hout area togation
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Data published to IBM IoT platfrom:
              latitude= 17.4219272
                                                                                                                                                               Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
   28
             myData={'name': name, 'lat':latitude, 'lon':longitude)
client.publishEvent(eventId="status", msgFormat="json'
print("Data published to IBM IoT platfrom: ",myData)
time.sleep(5)
              longitude= 78.5488783
                                                                                                           ', data=myData, qos=0, onPub
                                                                                                                                                               Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
                                                                                                                                                               Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
   34 client.disconnect()
                                                                                                                                                               Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
                                                                                                                                                               Data published to IBM IoT platfrom:
                                                                                                                                                               Data published to IBM IoT platfrom:
Data published to IBM IoT platfrom:
                                                                                                                                                               Data published to IBM IoT platfrom:
```

 After running the script, the web UI shows "Person is not in theparticular area"



Conclusion:

Developed the web application using Node-RED Successfully