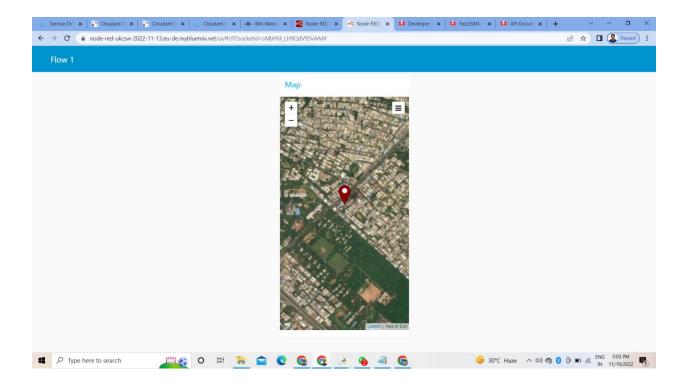
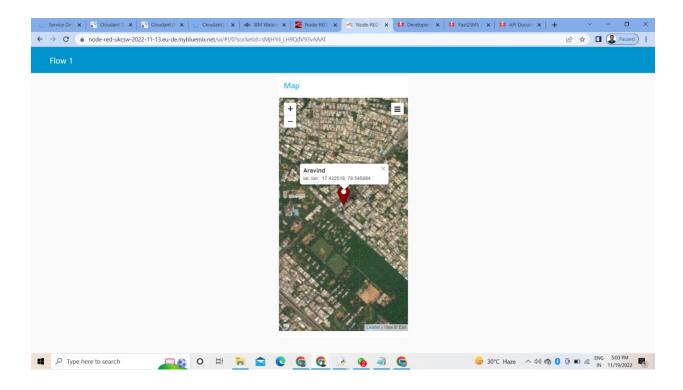
Project Development Phase Delivery of Sprint 4

Date	17 November 2022
Team ID	PNT2022TMID12738
Project Name	IOT based safety Gadget for child safety monitoring and notification
Maximum Marks	2

GPS location motoring by using Node Red Service



Setting up the Home location of the child



- GPS tracking is a concept where a mobile device is tracked using a Global positioning system. Our system is built on the concept of battery powered asset tracking.
- GPS tracking is a common method to get location information of a user or an asset in real-time planning. GPS tracking system is an open source software and easy to manage user interface via web server with google maps.

Python Code for child location Fetching and Publing the the child's Location

```
Child.py - C:\Users\LENOVO\AppData\Local\Programs\Python\Python37\Child.py (3.7.4)
                                                                      Х
File Edit Format Run Options Window Help
import json
import wiotp.sdk.device
import time
myConfig = {
    "identity":{
       "orgId": "cr4s7d",
       "typeId": "NodeMCU",
       "deviceId": "2461"
       "auth": {
           "token": "12345678"
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while 1:
  name="Aravind"
   #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, o
   print("Data published to IBM IoT platform: ",myData)
   time.sleep(5)
client.disconnet()
```

Output screen of the Python Program

```
File Edit Shell Debug Options Window Help

Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

== RBSTART: C:\Users\LENOVO\AppData\Local\Programs\Python\Python37\Child.py ==
2022-11-19:06:37,979 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:cr4s
7d:NodeMCU:2461

Data published to IBM IoT platform: {'name': 'Aravind', 'lat': 17.4225176, 'lon': 78.5458842}

Data published to IBM IoT platform: {'name': 'Aravind', 'lat': 17.4225176, 'lon': 78.5458842}

Data published to IBM IoT platform: {'name': 'Aravind', 'lat': 17.4225176, 'lon': 78.5458842}

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```