IoT Based Safety Gadget for Child SafetyMonitoring & Notification

Bachelor of Engineering Computer Science and Engineering

Vel Tech Multi Tech Dr. Rangarajan Dr. Sakunthala Engineering College

TEAM ID: PNT2022TMID22325

```
SOURCE CODE:
```

MAIN CODE:

import json

import wiotp.sdk.device

import time

import ibmiotf.application

import ibmiotf.device

```
myConfig = {
```

```
"identity": {
    "orgId": "046bct",
    "typeId": "DEVICE1",
    "deviceId": "12345"
  },
  "auth": {
    "token": "123456789"
 }
}
client = wiotp.sdk.device.DeviceClient(config=myConfig,
logHandlers=None)
client.connect()
while True:
  name= "Logesh"
  latitude= 11.055712
  longitude= 76.804089
  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 platform: ",mydata)
  time.sleep(20)
client.disconnect()
```

```
Code if the child is inside the geofence:
```

```
var d = new Date();
var utc = d.getTime() + (d.getTimezoneOffset() * 60000);
var offset = 5.5;
newDate = new Date(utc +(3600000 * offset));
msg.payload = {
  "message":"Entry",
  "Time":newDate.toLocaleString(),
  "name":global.get("name"),
  "lat":global.get("latitude"),
  "lon":global.get("longitude")
};
return msg;
Code if the child is outside the geofence:
var d = new Date();
var utc = d.getTime() + (d.getTimezoneOffset() * 60000);
```

```
var offset = 5.5;
newDate = new Date(utc +(3600000 * offset));
msg.payload = {
  "message": "child crossed the geofence",
  "Time":newDate.toLocaleString(),
  "name":global.get("name"),
  "lat":global.get("latitude"),
  "lon":global.get("longitude")
}:
return msg;
Code to return the current location:
var name = msg.payload.name
var lat = msg.payload.lat
var lon = msg.payload.lon
var alarm = 0
global.set('alarm',alarm)
global.set("latitude", lat)
```

global.set("longitude", lon) global.set("name", name) return msg;