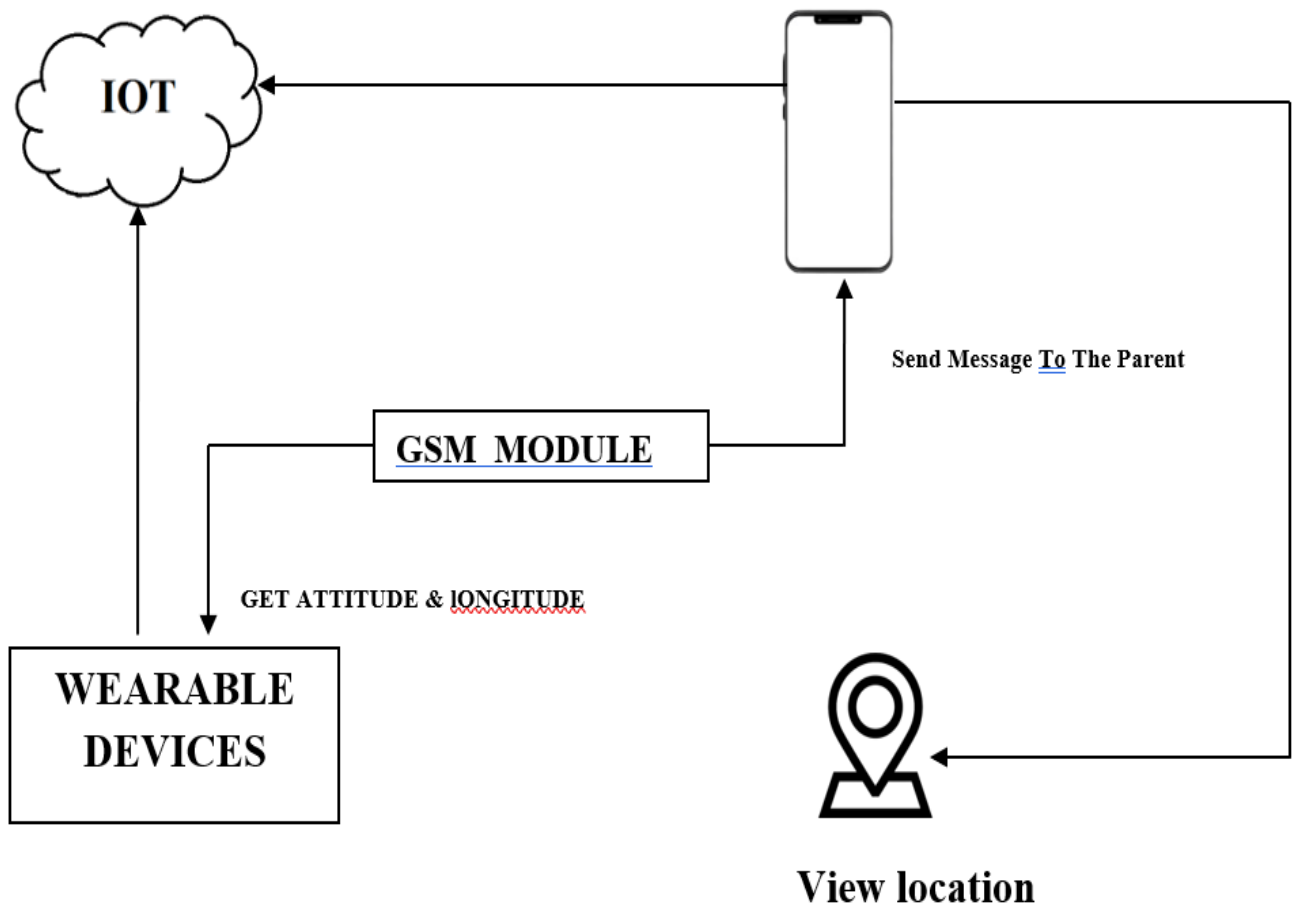


# PROJECT DEVELOPMENT PHASE

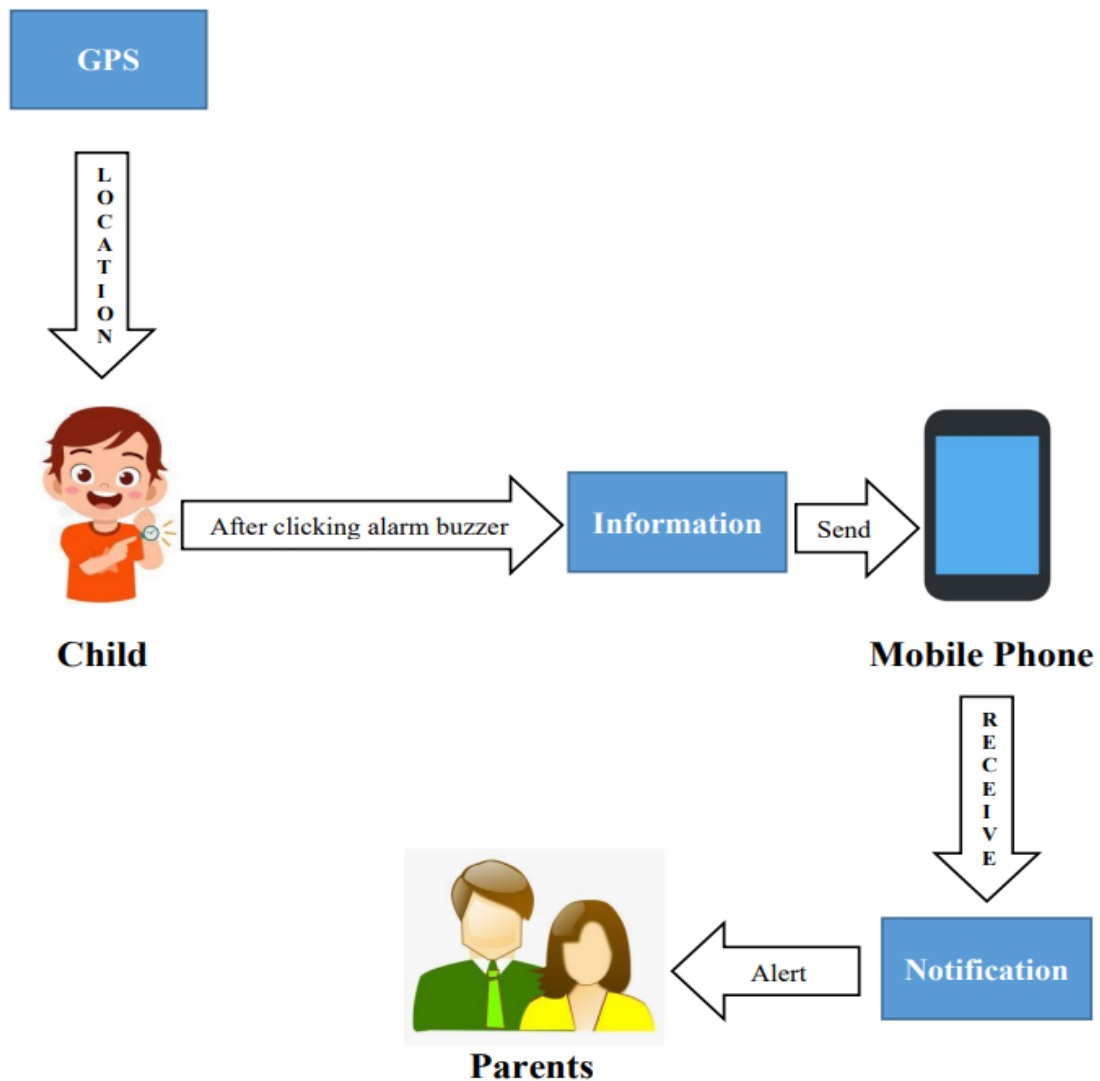
## SPRINT-4

Team ID	PNT2022TMID36630
Team Members	Team lead: INBARAJ J Member2: SANTHOSH SWAMY V Member3: SILVAN S Member4: SURESH KUMAR D
Project Name	Project – IOT-Based Safety Gadget for Child Safety Monitoring and Notification

### Project Diagrammatic Structure & Code:



- Parent mobile and wearable devices are connected with the help of cloud.
- If child was lost , the parent can access the location of child through the mobile application with the help of GSM module.
- Then, we can view the location of child with the help of mobile application.
- 



## **CODE:**

### **#Source code for GPS Location:**

```
import phonenumbers
import opencage
import folium
import webbrowser

number = "+916385571249"

from phonenumbers import geocoder # is a function
par_number = phonenumbers.parse(number)
location = geocoder.description_for_number(par_number, "en")
print(location)

# to see the service provider name
from phonenumbers import carrier
service_par = phonenumbers.parse(number)
S_provider = carrier.name_for_number(service_par, "en")
print(S_provider)

# opencage is for to view the location.
from opencage.geocoder import OpenCageGeocode
key = "7098ec840cb24aa9a5c38cce49fb3b81"
geocoder = OpenCageGeocode(key)
query = str(location)
result = geocoder.geocode(query)
#print(result)

lat = result[0]['geometry']['lat']
lng = result[0]['geometry']['lng']
print(lat, lng)

####

mymap = folium.Map(location=[lat, lng], zoom_start=9)
```

```
folium.Marker([lat, lng], popup=location).add_to(mymap)
mymap.save("mylocation.html")
webbrowser.open_new_tab("mylocation.html")
```

### **#Source code for Mobile Call:**

```
from twilio.rest import Client

account_SID = "AC89d677f42205372d8c7467d77f8124a5"
auth_token = "8d60fae39b28beaed14514b8d1cbf812"
client = Client(account_SID, auth_token)
call = client.calls.create(
    from_='+12136932446',
    to='+918438106497',

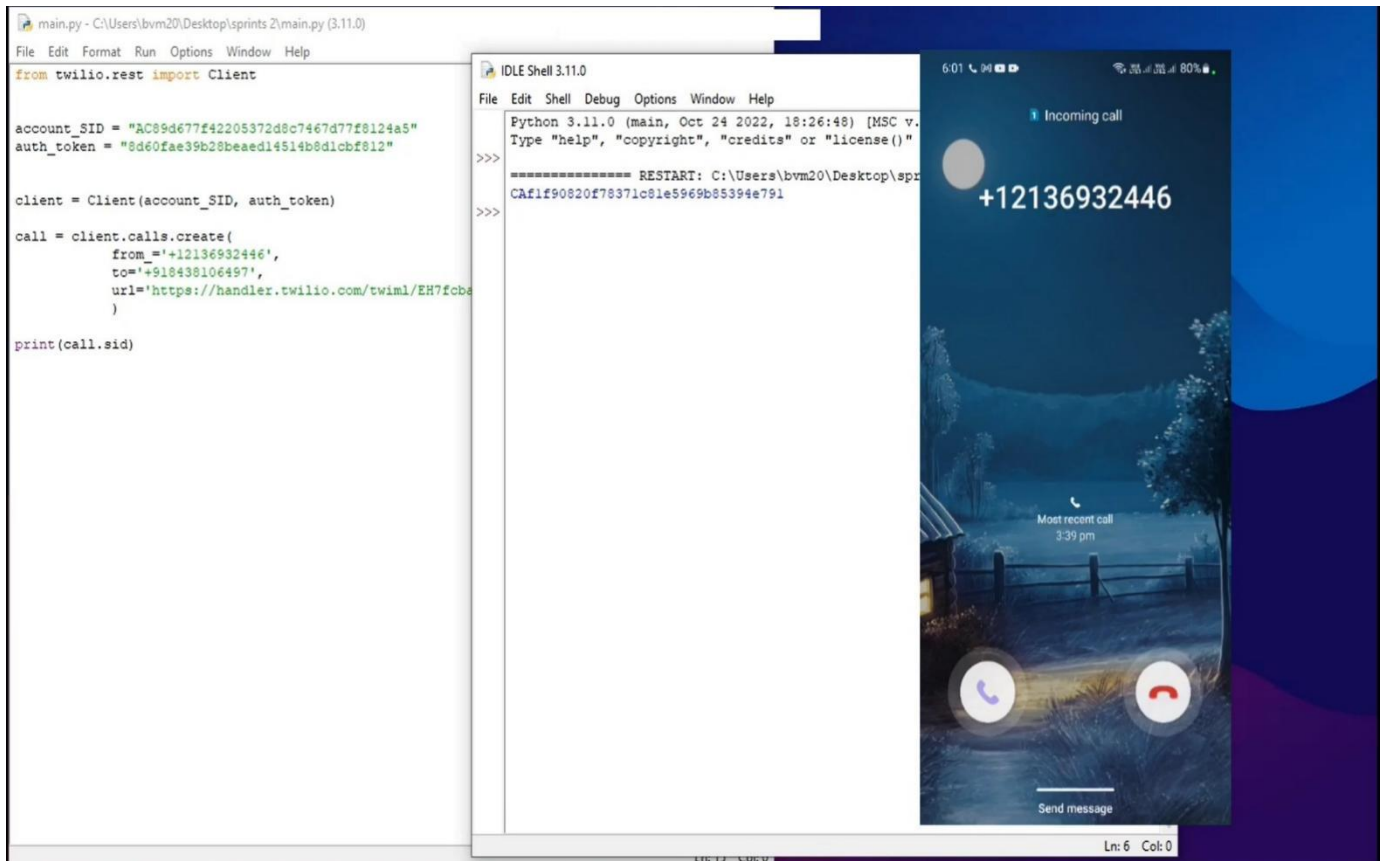
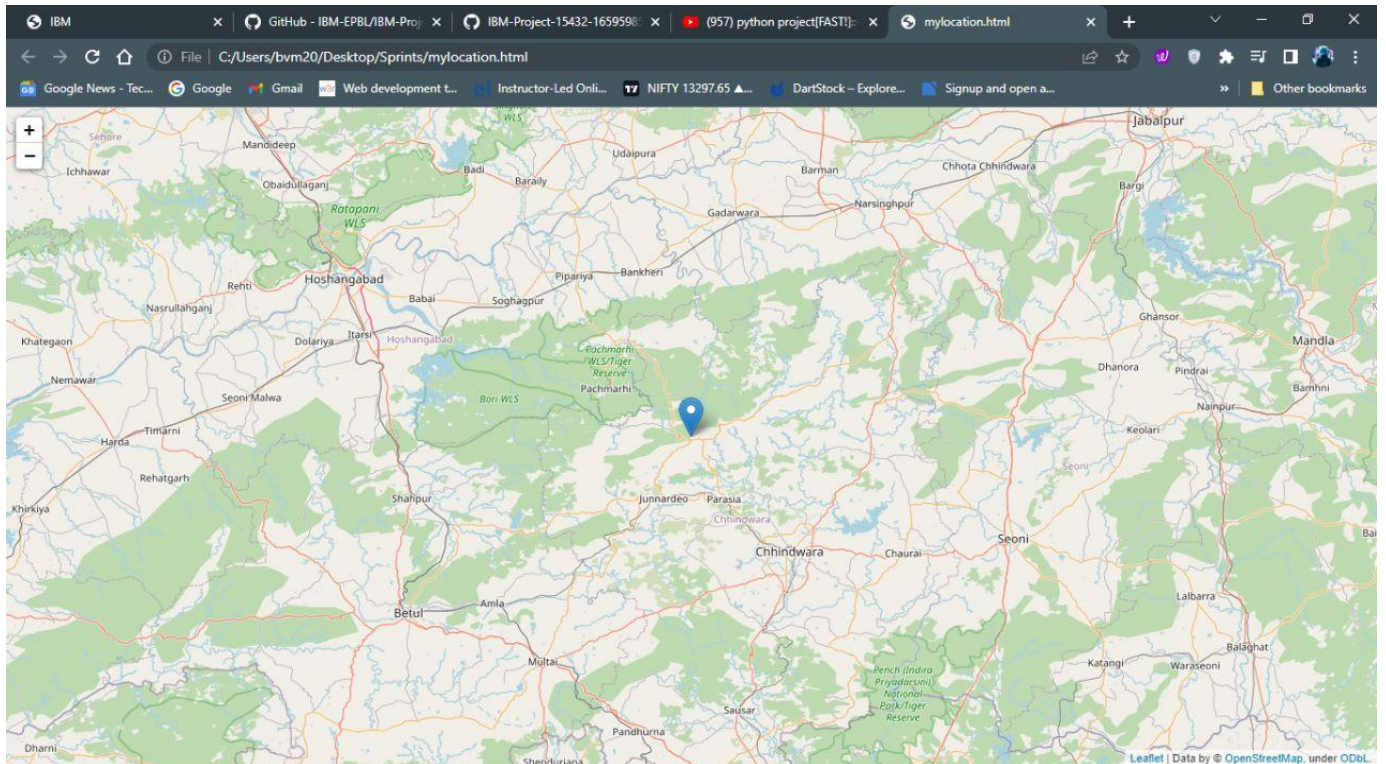
    url='https://handler.twilio.com/twiml/EH7fcba664228739cbc7d1e517
93d42420'
)
print(call.sid)
```

### **#Source code for Notification (Alert Message):**

```
from twilio.rest import Client

account_SID = "AC89d677f42205372d8c7467d77f8124a5"
auth_token = "8d60fae39b28beaed14514b8d1cbf812"
client = Client(account_SID, auth_token)
message = client.messages.create(
    from_='+12136932446',
    to = '+918438106497',
    body='Hi from Twilio'
)
print(message.sid)
```

# OUTPUT:



6:01

80%

1 Incoming call

+12136932446

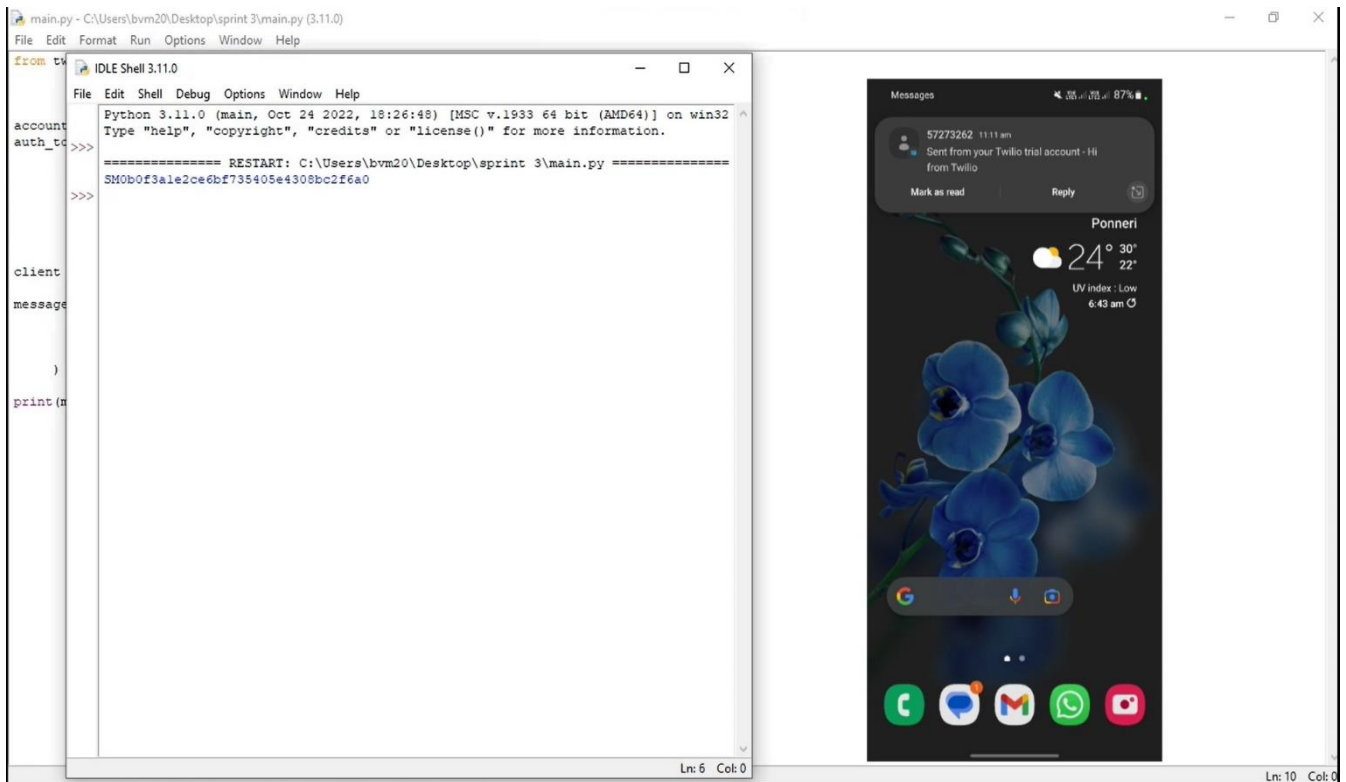
Most recent call  
3:39 pm



Send message



Alert Message from your Child





57273262



Save +9157273262?



Saving this contact also moves the conversation to Personal

Report spam

Add contact

11:07 am

Texting with 57273262 (SMS/MMS)



Sent from your Twilio trial account  
- Hi from Twilio



Sent from your Twilio trial account  
- Hi from Twilio

54 min • airtel



Text (airtel)

