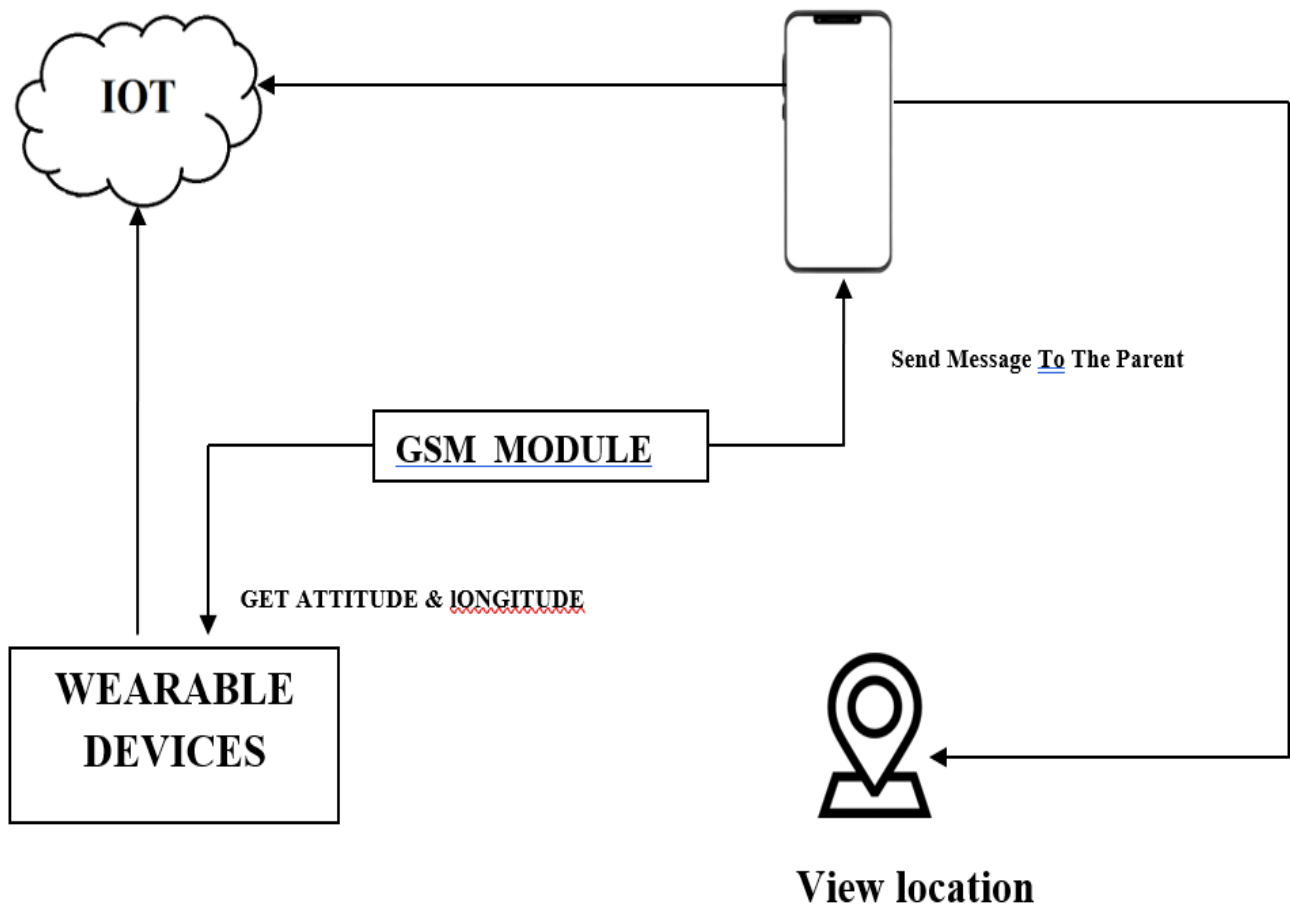


PROJECT DEVELOPMENT PHASE

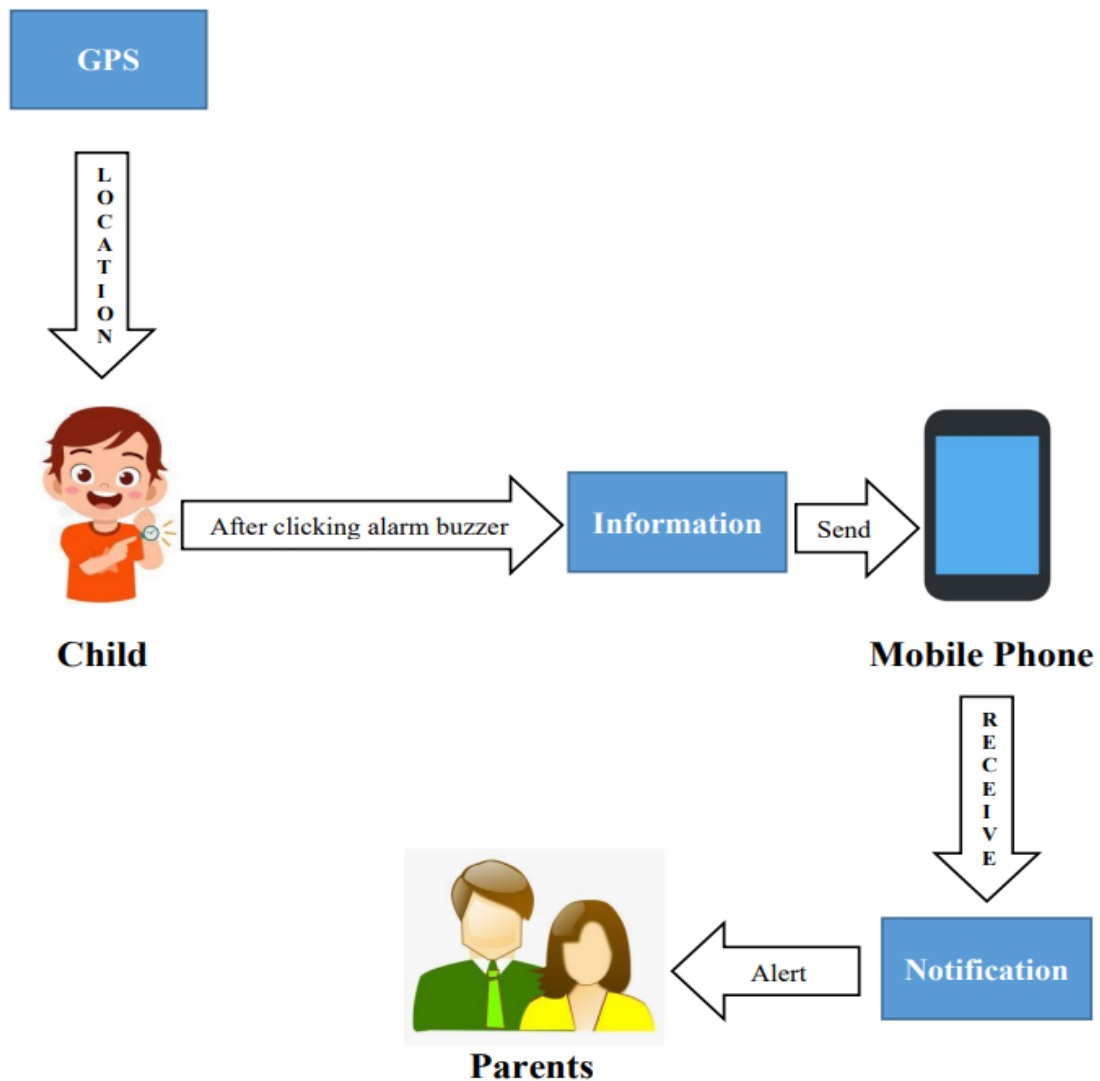
SPRINT-4

Team ID	PNT2022TMID36623
Team Members	Team lead: BANDLA VENU MADHAV Member2: KUMAR.A Member3: BALU SUNDAR T.S Member4: SARAVANAN.V
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',

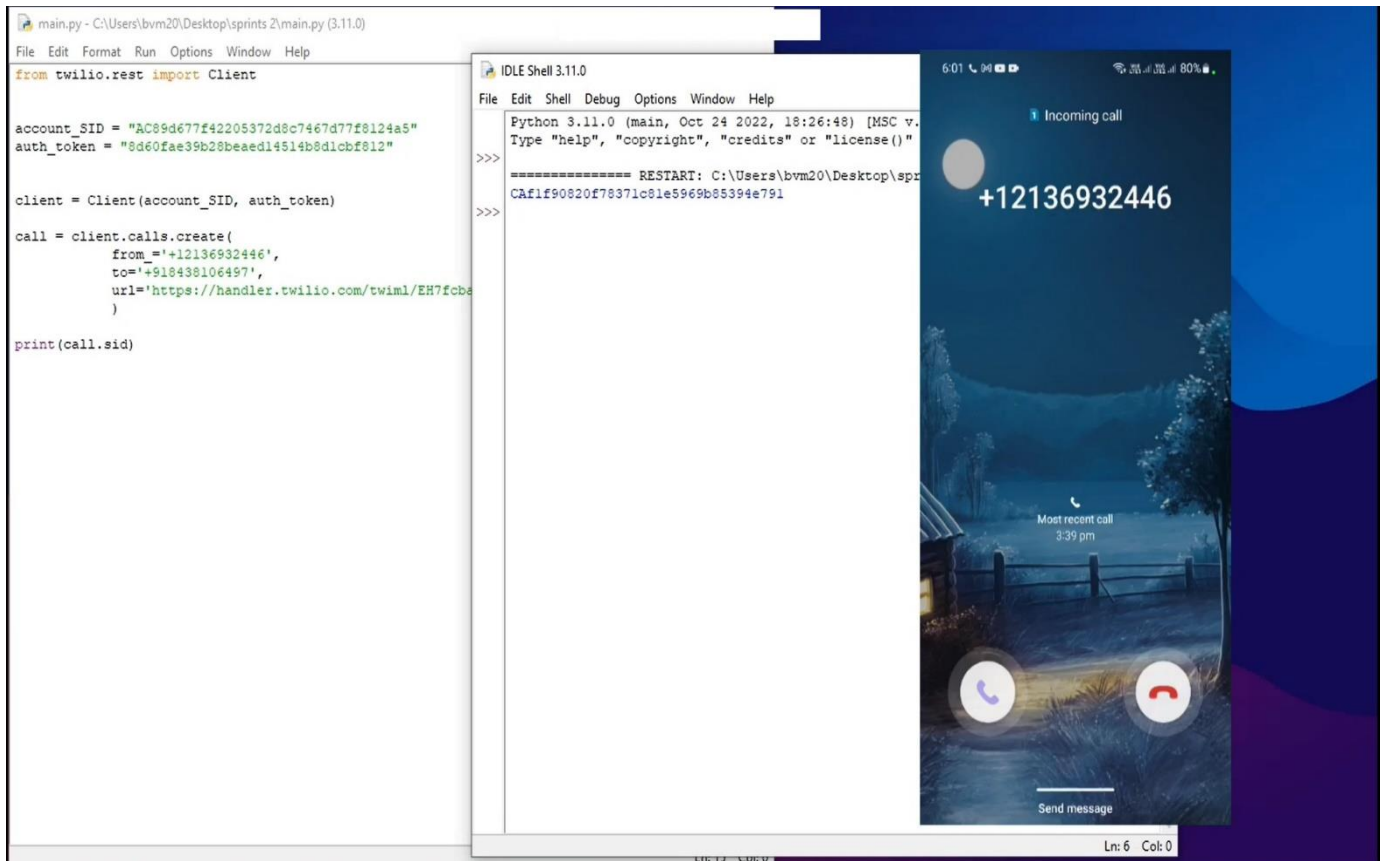
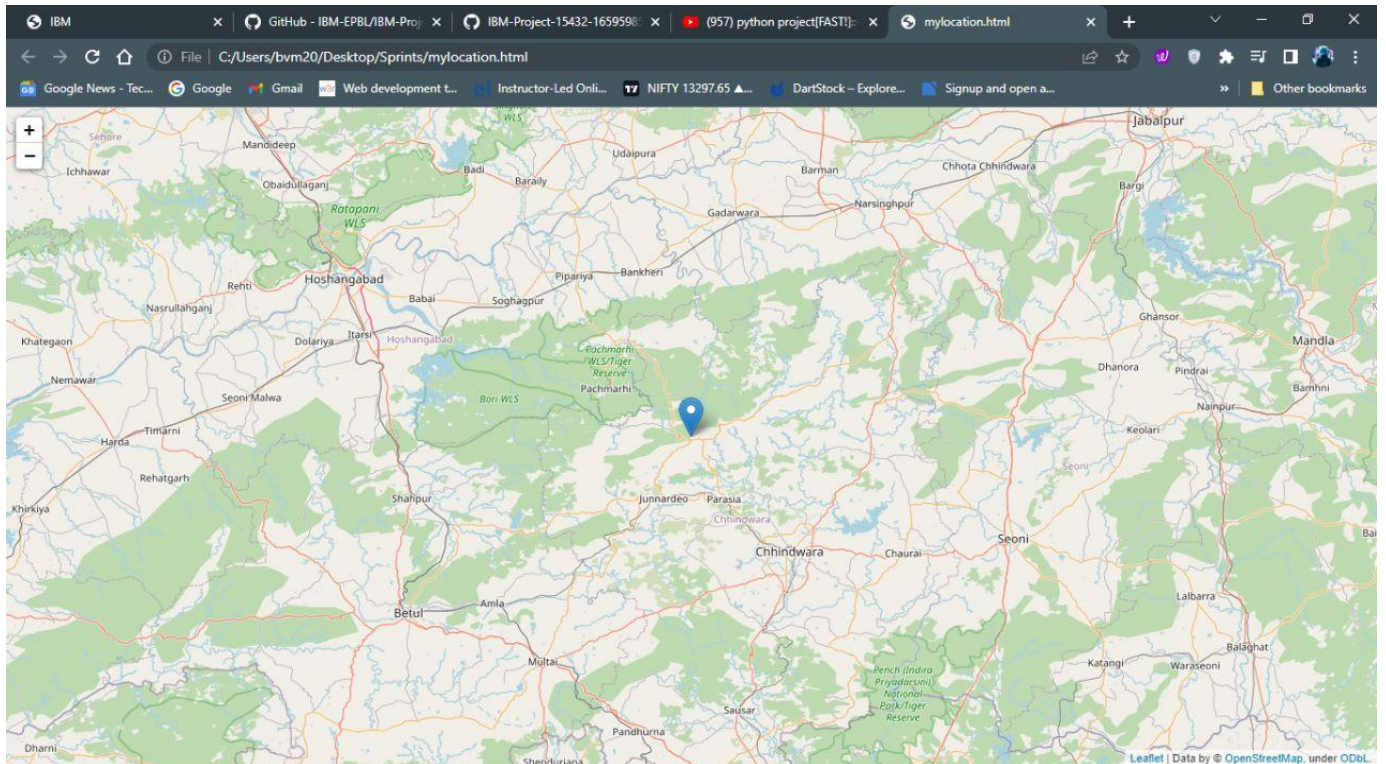
    url='https://handler.twilio.com/twiml/EH7fcba664228739cbc7d1e517
93d42420'
)
print(call.sid)
```

#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

VoLTE1 VoLTE2 80%

1 Incoming call



+12136932446

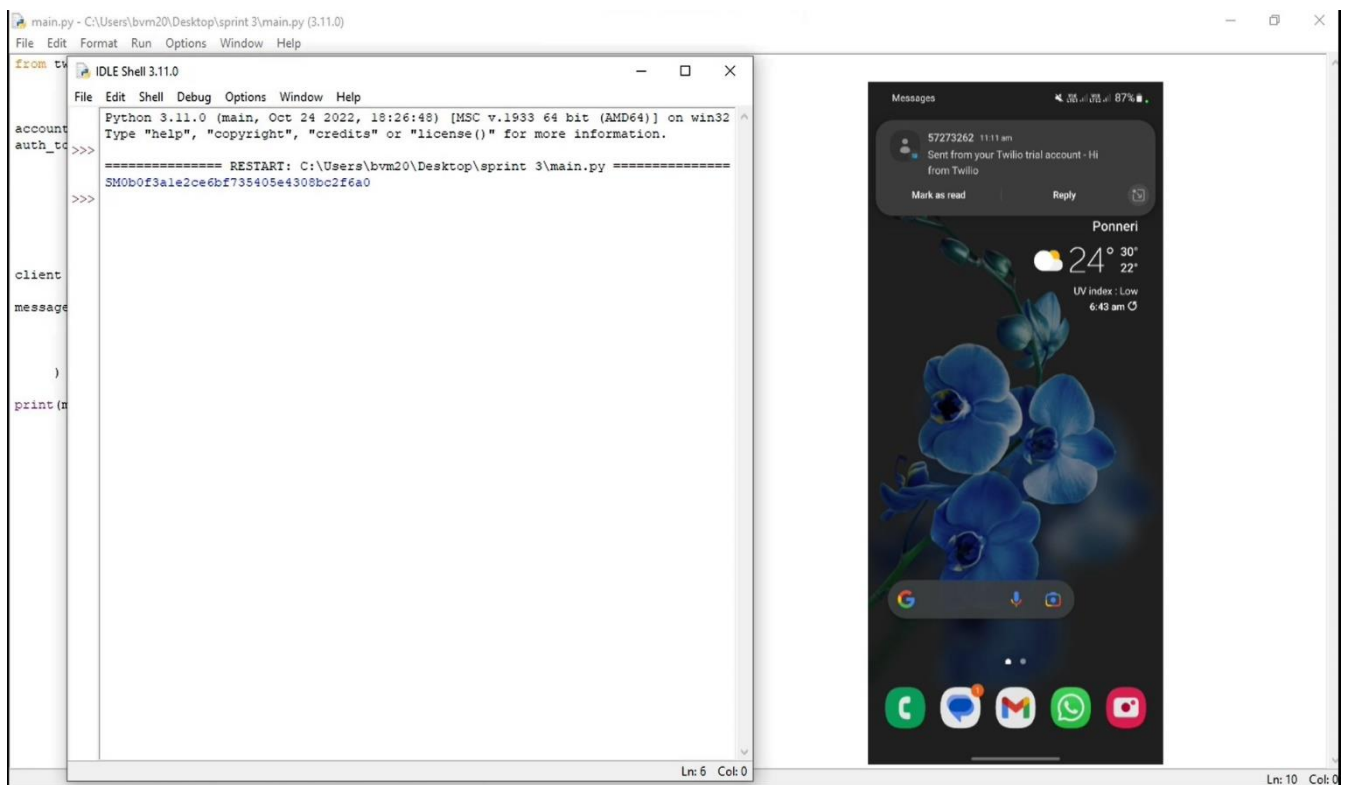


Most recent call
3:39 pm



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)

