

PROJECT DEVELOPMENT PHASE

SPRINT-1

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

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")
```

OUTPUT:

