

Project Development Phase

Sprint-1

Date	24 October 22
Team ID	PNT2022TMID41842
Project Name	IoT based safety gadget for child safety monitoring and notification
Team Size	4

Source code for GPS Location Tracker:

```
import json
import pycountry
from tkinter import Tk, Label, Button, Entry
from phone_iso3166.country import phone_country

class Location_Tracker:
    def __init__(self, App):
        self.window = App
        self.window.title("Phone number Tracker")
        self.window.geometry("500x400")
        self.window.configure(bg="#3f5efb")
        self.window.resizable(False, False)

        #____Application menu____
        Label(App, text="Enter a phone number",fg="white",
              font=("Times", 20), bg="#3f5efb").place(x=150,y= 30)
        self.phone_number = Entry(App, width=16,
                                   font=("Arial", 15), relief="flat")
        self.track_button = Button(App, text="Track Country",
                                   bg="#22c1c3", relief="sunken")
        self.country_label = Label(App,fg="white",
                                   font=("Times", 20), bg="#3f5efb")

        #____Place widgets on the window____
        self.phone_number.place(x=170, y=120)
        self.track_button.place(x=200, y=200)
        self.country_label.place(x=100, y=280)
```

```

#___Linking button with countries ___
self.track_button.bind("<Button-1>", self.Track_location)
#255757294146

def Track_location(self,event):
    phone_number = self.phone_number.get()
    country = "Country is Unknown"
    if phone_number:
        tracked
pycountry.countries.get(alpha_2=phone_country(phone_number))
        print(tracked)
        if tracked:
            if hasattr(tracked, "official_name"):
                country = tracked.official_name
            else:
                country = tracked.name
        self.country_label.configure(text=country)

PhoneTracker = Thk()
MyApp = Location_Tracker(PhoneTracker)
PhoneTracker.mainloop()

```

Output:

Phone number Tracker

Enter a phone number

222757294146

Track Country

Islamic Republic of Mauritania