PROJECT DEVELOPMENT PHASE Sprint 4

Date	17 November 2022
Team ID	PNT2022TMID14022
Project Name	IoT Based Safety Gadget for Child
	Safety Monitoring and Notification

Sprint 4 is send alert notification when entered and exited the geofence

Coding:

```
package com.example.geofence;
import
android.content.BroadcastReceiver;
import android.content.Context; import
android.location.Intent; import
android.location.Location; import
android.os.CountDownTimer; import
android.widget.Toast;
import com.google.android.gms.location.Geofence;
import
com.google.android.gms.location.GeofencingEvent;
import java.util.List;
import java.util.List;
import android.os.Handler;

public class GeofenceBroadcastReceiver extends BroadcastReceiver {
    private static final String TAG = "GeofenceBroadcastReceiver;;

    @Override
    public void onReceive(Context context, Intent intent) {
        // TODO: This method is called when the BroadcastReceiver is receiving
        // an Intent broadcast
        //.
        /*Toast.makeText(context, "GEOFENCE_ENTERED",
Toast.LENGTH_SHORT).show();
        int toastDurstionInMilliSeconds = 1200000.
```

```
NotificationHelper(context);
notificationHelper.sendHighPriorityNotification("GEOFENCE TRANSITION ENTER"
       transitionType = geofencingEvent.getGeofenceTransition();
       switch (transitionType) { case
               notificationHelper.sendHighPriorityNotification("Exited the
```

Notification Class:

```
import android.app.Notification;
android.content.ContextWrapper; import
android.os.Build;
import androidx.core.app.NotificationCompat;
import androidx.core.app.NotificationManagerCompat; import
java.util.Random; public class NotificationHelper extends
ContextWrapper { private static final String TAG =
"NotificationHelper";
   public NotificationHelper(Context base)
           createChannels();
   public void sendHighPriorityNotification(String title, String body,
```

```
PendingIntent pendingIntent = PendingIntent.getActivity(this, 267, intent,
PendingIntent.FLAG_UPDATE_CURRENT);

Notification notification = new NotificationCompat.Builder(this,
CHANNEL_ID)

// .setContentTitle(title)

// .setContentText(body)

.setSmallIcon(R.drawable.ic_launcher_background)
.setPriority(NotificationCompat.PRIORITY_HIGH)
.setStyle(new

NotificationCompat.BigTextStyle().setSummaryText("summary").setBigContentTitle(title).bigText(body))

.setContentIntent(pendingIntent)
.setAutoCancel(true)
.build();

NotificationManagerCompat.from(this).notify(new Random().nextInt(), notification);
}
```

Output:

