GEOFENCE CODE

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Team ID	PNT2022TMID04739
Project Name	Project - IoT based safety gadget for Child Safety Monitoring and Notification
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CODE:

```
Package com.example.geofence;
import android.app.PendingIntent;
import android.content.Context;
import android.content.ContextWrapper;
import android.content.Intent;
import android.widget.Toast;
import com.google.android.gms.location.Geofence;
import com.google.android.gms.location.GeofenceStatusCodes;
import com.google.android.gms.location.GeofencingRequest;
import com.google.android.gms.maps.model.LatLng;
public class GeofenceHelper extends ContextWrapper
{
```

```java
private static final String TAG = "GeofenceHelper";
PendingIntent pendingIntent;

public GeofenceHelper(Context base)
 {
   super(base);
 }

public GeofencingRequest getGeofencingRequest(Geofence geofence)
 {
   return new GeofencingRequest.Builder().addGeofence(geofence)
   .setInitialTrigger(GeofencingRequest.INITIAL_TRIGGER_ENTER).build();
 }

 public Geofence getGeofence(String ID, LatLng latLng, float radius, int transitionTypes)
  {
    return new Geofence.Builder().setCircularRegion(latLng.latitude, latLng.longitude, radius)
   .setRequestId(ID).setTransitionTypes(transitionTypes).setLoiteringDelay(5000)
   .setExpirationDuration(Geofence.NEVER_EXPIRE).build();
  }
 public PendingIntent getPendingIntent()
  {
          if (pendingIntent != null)
           {
             return pendingIntent;
           }
          Intent intent = new Intent(this, GeofenceBroadcastReceiver.class);
pendingIntent=PendingIntent.getBroadcast(this,2607,intent,PendingIntent.FLAG_IMMUTABLE);
          return pendingIntent;
  }
 public String getErrorString(Exception e)
  {
   if (e instanceof ApiException)
```

```java
        {
            ApiException apiException = (ApiException) e;
            switch (apiException.getStatusCode())
            {
            case GeofenceStatusCodes.GEOFENCE_NOT_AVAILABLE:
            return "GEOFENCE_NOT_AVAILABLE";
            case GeofenceStatusCodes.GEOFENCE_TOO_MANY_GEOFENCES:
            return "GEOFENCE_TOO_MANY_GEOFENCES";
            case GeofenceStatusCodes.GEOFENCE_TOO_MANY_PENDING_INTENTS:
             return "GEOFENCE_TOO_MANY_PENDING_INTENTS";
            }
        }
        return e.getLocalizedMessage();

    }
}
```