GEOFENCE CODE

Date	17 November 2022
Team ID	
	PNT2022TM
	ID17666
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.common.api.ApiException; 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 {

```
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)
. set Initial Trigger (Geofencing Request. 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) {
      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();
}
```