GEOFENCE CODE

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Team ID	PNT2022TMID30855
Project Name	IoT based safety gadget for ChildSafetyMonitoring and Notification
TEAM LEADER	ATHITIYA KA
TEAM MEMBERS	DHARANI S ARUN KUMAR K DINESH KUMAR CS

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)
. 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) {
      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();
}
```