Project Development Phase

SPRINT-3

Team Id:	PNT2022TMID26599
Project Name:	IoT Based Safety Gadget for Child Safety
	Monitoring & Notification
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Sprint 3 is adding the geofence and changing the geofence when need

CODING:

```
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;
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) {
GeofencingRequest.Builder()
        .addGeofence(geofence)
        .setInitialTrigger(GeofencingRequest./N/T/AL_TRIGGER_ENTER)
        .build();
 public Geofence getGeofence(String ID, LatLng latLng, float radius, int transitionTypes) {
Geofence.Builder()
        .setCircularRegion(latLng.latitude, latLng.longitude, radius)
                                                                             .setRequestId(ID)
        . set Transition Types (transition Types) \\
        .setLoiteringDelay(5000)
        .setExpirationDuration(Geofence.NEVER_EXPIRE)
        .build();
```

```
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
```

Output: Adding Geofence page

