Sprint 3

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Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification

Sprint 3 is adding the geofence and changing the geofence when need **Coding**:

```
package com.example.geofence; import
android.app.PendingIntent; <a href="import">import</a> 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.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;
 public GeofenceHelper(Context base) {
                                           super(base);
 public GeofencingRequest getGeofencingRequest(Geofence geofence) {
GeofencingRequest.Builder()
       .addGeofence(geofence)
       .setInitialTrigger(GeofencingRequest.INITIAL_TRIGGER_ENTER)
 public Geofence getGeofence(String ID, LatLng latLng, float radius, int transitionTypes) {
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) {
```

```
| 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 |
| GeofenceStatusCodes |
| GEOFENCE_TOO_MANY_GEOFENCES: return |
| "GEOFENCE_TOO_MANY_GEOFENCES"; case |
| GeofenceStatusCodes |
| GEOFENCE_TOO_MANY_PENDING_INTENTS: return |
| "GEOFENCE_TOO_MANY_PENDING_INTENTS: return |
| geofenceStatusCodes |
| GEOFENCE_TOO_MANY_PENDING_INTENTS: return |
| geofenceStatusCodes |
| GEOFENCE_TOO_MANY_PENDING_INTENTS: return |
| geofenceStatusCodes |
```





Output: Adding Geofence page

