

SPRINT - 3

Date	08 November 2022
Team ID	PNT2022TMID04739
Project Name	Project - IoT based safety gadget for Child Safety Monitoring and Notification
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Adding the geo-fence and changing the geo-fence 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; 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();
}
}

```

My Location