SPRINT 3

DATE	12 November 2022
TEAM ID	PNT2022TMID25071
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 :

```java
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;
```

```java
        }
        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();
  }
}
```

Output : Adding Geofence page

Geofence Location

My Location