Sprint 3

Date	19 November 2022
Team ID	PNT2022TMID38342
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification

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