

FINAL CODING

REAL TIME COMMUNICATION SYSTEM POWERED BY AI FOR SPECIALLY ABLED

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FINALCODE

AlertNotificationcode

```
package com.example.geofence;
import
android.content.BroadcastReceiver;imp
ort android.content.Context;
import
android.content.Intent;import
android.location.Location;import
android.os.CountDownTimer;imp
ort android.util.Log;
import android.widget.Toast;
import com.google.android.gms.location.Geofence;
import
com.google.android.gms.location.GeofencingEvent;im
port java.util.List;
import android.os.Handler;
public class GeofenceBroadcastReceiver extends BroadcastReceiver
```

```

{
private static final String TAG =
"GeofenceBroadcastReceiver";
@Override
public void onReceive(Context context, Intent intent)
{
// TODO: This method is called when the BroadcastReceiver is receiving
// an Intent broadcast.
//.
/* Toast.makeText(context, "GEOFENCE_ENTERED",
Toast.LENGTH_SHORT).show(); final Toast mToastToShow;
int toastDurationInMilliseconds = 1200000;
mToastToShow = Toast.makeText(context, "GEOFENCE_EXITED", Toast.LENGTH_LONG)
;
// Set the countdown to display the
Date 24 November 2022
Team ID PNT2022TMID47921
Project Name Project-IoT based safety gadget for child
safety monitoring and notification

toastCountDownTimer toastCountDown;
toastCountDown = new CountDownTimer(toastDurationInMilliseconds, 1000000)
{
public void onTick(long millisUntilFinished)
{
mToastToShow.show();
}
public void onFinish()
{
mToastToShow.cancel();
}
};
// Show the toast and start the
countdown mToastToShow.show(); toast
CountDown.start(); */
NotificationHelper notificationHelper = new
NotificationHelper(context); notificationHelper.sendHighPriorityNotification("GEOFE

```

```

NCE_T
RANSITION_ENTER","",MapsActivity.class);
GeofencingEventgeofencingEvent=
GeofencingEvent.fromIntent(intent);if(geofencingEvent.hasError()){
Log.d(TAG,"onReceive:Errorreceivinggeofence
event...");return;
}
List<Geofence>geofenceList=
geofencingEvent.getTriggeringGeofences();for(Geofencegeofence:
geofenceList)
{
Log.d(TAG,"onReceive:"+geofence.getRequestId());
}
//Locationlocation=
geofencingEvent.getTriggeringLocation();int
transitionType=
geofencingEvent.getGeofenceTransition();switch(transitio
nType)
{
caseGeofence.GEOFENCE_TRANSITION_ENTER:
notificationHelper.sendHighPriorityNotification("Enteredthe
Location","",MapsActivity.class);
break;
case
Geofence.GEOFENCE_TRANSITION_EXIT:notificationHelper.sendHi
ghPriorityNotification("ExitedtheLocation","",MapsActivity.class);
break;
}
}
Geofence:
Package
com.example.geofence;import
android.app.PendingIntent;impo
rtandroid.content.Context;
import

```

```

android.content.ContextWrapper;imp
rtandroid.content.Intent;
importandroid.widget.Toast;
import
com.google.android.gms.common.api.ApiException;i
mportcom.google.android.gms.location.Geofence;
import
com.google.android.gms.location.GeofenceStatusCodes;i
mport
com.google.android.gms.location.GeofencingRequest;imp
ortcom.google.android.gms.maps.model.LatLng;
publicclassGeofenceHelperextendsContextWrapper
{
    privatestaticfinalStringTAG=
    "GeofenceHelper";PendingIntentpendingIntent;
    publicGeofenceHelper(Contextbase)
    {
        super(base);
    }
    publicGeofencingRequest
    getGeofencingRequest(Geofencegeofence){
        returnnewGeofencingRequest.Builder()
        .addGeofence(geofence)
        .setInitialTrigger(GeofencingRequest.INITIAL_TRIGGER_ENTER)
        .build();
    }
    publicGeofencegetGeofence(StringID,LatLnglatLng,
    floatradius,inttransitionTypes)
    {
        returnnewGeofence.Builder()
        .setCircularRegion(latLng.lati
        de,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, GeofenceBroadcastR  
            eceiver.class);  
    pendingIntent = PendingIntent.getBroadcast(this,  
        2607, intent, PendingIntent.FLAG_IMMUTABLE);  
    return pendingIntent;  
}
```