Application Name: ContentProviderExample

package com.example.conentproviderexample;  
  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.core.app.ActivityCompat;  
import androidx.core.content.ContextCompat;  
  
import android.Manifest;  
import android.annotation.SuppressLint;  
import android.content.ContentResolver;  
import android.content.pm.PackageManager;  
import android.database.Cursor;  
import android.net.Uri;  
import android.os.Bundle;  
import android.provider.ContactsContract;  
import android.util.Log;  
import android.widget.ArrayAdapter;  
import android.widget.ListView;  
import android.widget.Toast;  
  
import java.util.ArrayList;  
  
public class MainActivity extends AppCompatActivity {  
 ListView list;  
 ArrayList<String> listdata;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 int p= ContextCompat.*checkSelfPermission*(this, Manifest.permission.*READ\_CONTACTS*);  
 *//int q= ContextCompat.checkSelfPermission(this, Manifest.permission.READ\_CONTACTS);* if (p!=PackageManager.*PERMISSION\_GRANTED*)  
 {  
 ActivityCompat.*requestPermissions*(this, new String[] {Manifest.permission.*READ\_CONTACTS*},0);  
 Toast.*makeText*(this,"Permission Granted", Toast.*LENGTH\_LONG*).show();  
 }  
 *//Toast.makeText(this, "Hello", Toast.LENGTH\_LONG).show();* list=findViewById(R.id.*list*);  
 listdata=new ArrayList<String>();  
*//.......................................................................* ContentResolver resolver=getContentResolver();  
 Uri uri= ContactsContract.CommonDataKinds.Phone.*CONTENT\_URI*;  
 Toast.*makeText*(this, "uri", Toast.*LENGTH\_SHORT*).show();  
  
 String projection[]=null;  
 String selection=null;  
 String selectionargs[]=null;  
 String order=null;  
 Cursor cursor= resolver.query(uri,projection,selection, selectionargs,order);  
 *//Toast.makeText(this,)* Log.*i*("Contact", "Total number of contacts " + Integer.*toString*(cursor.getCount()));  
  
 if (cursor.getCount()>0)  
 {  
 while (cursor.moveToNext())  
 {  
 *//Toast.makeText(this, "Record found",Toast.LENGTH\_LONG).show();  
  
 //stringBuilderQueryResult.append(cursor.getString(0)+" , "+cursor.getString(1)+" , "+cursor.getString(2)+"\n");  
 // int iname=cursor.getColumnIndex(String.valueOf(cursor.getColumnIndex(ContactsContract.CommonDataKinds.Phone.DISPLAY\_NAME)));  
 //int inumber=cursor.getColumnIndex(String.valueOf(cursor.getColumnIndex(ContactsContract.CommonDataKinds.Phone.NUMBER)));  
 //String name=cursor.getString(iname);  
 //String number=cursor.getString(inumber);* @SuppressLint("Range") String name=cursor.getString(cursor.getColumnIndex(ContactsContract.CommonDataKinds.Phone.*DISPLAY\_NAME*));  
 @SuppressLint("Range") String number=cursor.getString(cursor.getColumnIndex(ContactsContract.CommonDataKinds.Phone.*NUMBER*));  
 *// String name=cursor.getString(cursor.getColumnIndex(ContactsContract.CommonDataKinds.Phone.DISPLAY\_NAME)  
 // String number=cursor.getString(cursor.getColumnIndex(ContactsContract.CommonDataKinds.Phone.NUMBER));* Log.*i*("Contact", name + number);  
 String fullcontact=name + "\n" + number;  
 listdata.add(fullcontact);  
 }  
  
 ArrayAdapter<String> adapter= new ArrayAdapter<String>(this, android.R.layout.*simple\_list\_item\_1*,listdata);  
 list.setAdapter(adapter);  
 }  
 else  
 Toast.*makeText*(this,"No contacts",Toast.*LENGTH\_LONG*).show();  
  
  
  
  
 }  
}

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*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity">  
  
 <ListView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/list"/>  
  
</LinearLayout>