Menifest File:

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools">

<uses-permission android:name="android.permission.READ\_SMS"/>

<uses-permission android:name="android.permission.SEND\_SMS"/>

<uses-permission android:name="android.permission.RECEIVE\_SMS"/>

<uses-permission android:name="android.permission.READ\_PHONE\_STATE"/>

<uses-permission android:name="android.permission.RECEIVE\_BOOT\_COMPLETED"/>

<application

android:allowBackup="true"

android:dataExtractionRules="@xml/data\_extraction\_rules"

android:fullBackupContent="@xml/backup\_rules"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.Smsmanager"

tools:targetApi="31">

<activity

android:name=".MainActivity"

android:exported="true">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>

XML Code:

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:orientation="vertical"

android:padding="16dp"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<TextView

android:text="Inbox Messages:"

android:textSize="18sp"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"/>

<ListView

android:id="@+id/listViewMessages"

android:layout\_width="match\_parent"

android:layout\_height="300dp"

android:dividerHeight="1dp"/>

<EditText

android:id="@+id/editTextNumber"

android:hint="Enter phone number"

android:inputType="phone"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"/>

<EditText

android:id="@+id/editTextMessage"

android:hint="Enter message"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"/>

<Button

android:id="@+id/btnSend"

android:text="Send SMS"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="10dp"/>

</LinearLayout>

JAVA Code:

package com.example.smsmanager;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.app.ActivityCompat;

import androidx.core.content.ContextCompat;

import android.Manifest;

import android.content.ContentResolver;

import android.content.pm.PackageManager;

import android.database.Cursor;

import android.net.Uri;

import android.os.Bundle;

import android.telephony.SmsManager;

import android.view.View;

import android.widget.ArrayAdapter;

import android.widget.Button;

import android.widget.EditText;

import android.widget.ListView;

import android.widget.Toast;

import java.util.ArrayList;

public class MainActivity extends AppCompatActivity {

ListView listViewMessages;

EditText editTextNumber, editTextMessage;

Button btnSend;

private static final int REQUEST\_SMS\_PERMISSION = 123;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

listViewMessages = findViewById(R.id.listViewMessages);

editTextNumber = findViewById(R.id.editTextNumber);

editTextMessage = findViewById(R.id.editTextMessage);

btnSend = findViewById(R.id.btnSend);

// Request SMS permissions

if (ContextCompat.checkSelfPermission(this, Manifest.permission.READ\_SMS) != PackageManager.PERMISSION\_GRANTED

|| ContextCompat.checkSelfPermission(this, Manifest.permission.SEND\_SMS) != PackageManager.PERMISSION\_GRANTED) {

ActivityCompat.requestPermissions(this,

new String[]{Manifest.permission.READ\_SMS, Manifest.permission.SEND\_SMS},

REQUEST\_SMS\_PERMISSION);

} else {

loadInboxMessages();

}

// Send SMS button click

btnSend.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

sendSmsMessage();

}

});

}

// Load Inbox Messages

private void loadInboxMessages() {

ArrayList<String> smsList = new ArrayList<>();

Uri uriSms = Uri.parse("content://sms/inbox");

ContentResolver cr = getContentResolver();

Cursor cursor = cr.query(uriSms, null, null, null, null);

if (cursor != null && cursor.moveToFirst()) {

do {

String address = cursor.getString(cursor.getColumnIndexOrThrow("address"));

String body = cursor.getString(cursor.getColumnIndexOrThrow("body"));

smsList.add("From: " + address + "\nMessage: " + body);

} while (cursor.moveToNext());

cursor.close();

}

ArrayAdapter<String> adapter = new ArrayAdapter<>(this,

android.R.layout.simple\_list\_item\_1, smsList);

listViewMessages.setAdapter(adapter);

}

// Send SMS Message

private void sendSmsMessage() {

String phone = editTextNumber.getText().toString();

String message = editTextMessage.getText().toString();

if (phone.isEmpty() || message.isEmpty()) {

Toast.makeText(this, "Please enter number and message", Toast.LENGTH\_SHORT).show();

return;

}

try {

SmsManager smsManager = SmsManager.getDefault();

smsManager.sendTextMessage(phone, null, message, null, null);

Toast.makeText(this, "SMS Sent!", Toast.LENGTH\_SHORT).show();

editTextMessage.setText("");

} catch (Exception e) {

Toast.makeText(this, "Failed to send SMS: " + e.getMessage(), Toast.LENGTH\_LONG).show();

}

}

// Handle permission result

@Override

public void onRequestPermissionsResult(int requestCode, String[] permissions, int[] grantResults) {

if (requestCode == REQUEST\_SMS\_PERMISSION) {

if (grantResults.length > 0 && grantResults[0] == PackageManager.PERMISSION\_GRANTED) {

loadInboxMessages();

} else {

Toast.makeText(this, "Permission Denied", Toast.LENGTH\_SHORT).show();

}

}

}

}