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

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"

        android:id="@+id/send"
        android:text="Send SMS"
        android:layout_centerInParent="true"
        android:paddingTop="8dp"
    >

</Button>

    <com.google.android.material.textfield.TextInputEditText
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/send"
        android:layout_centerHorizontal="true"
        android:id="@+id/sms"
        android:hint="message"
    >

</com.google.android.material.textfield.TextInputEditText>

    <com.google.android.material.textfield.TextInputEditText
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/sms"
        android:layout_centerHorizontal="true"
        android:id="@+id/phone"
        android:hint="phone"
    >

</com.google.android.material.textfield.TextInputEditText>
</RelativeLayout>

package com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.Manifest;
import android.app.PendingIntent;
import android.content.Intent;
import android.content.pm.PackageManager;
import android.os.Bundle;
import android.telephony.SmsManager;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;

import com.google.android.material.textfield.TextInputEditText;

import androidx.core.app.ActivityCompat;
import androidx.core.content.ContextCompat;

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public class MainActivity extends AppCompatActivity {

    private static final int MY_PERMISSIONS_REQUEST_SEND_SMS = 1;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        TextInputEditText t1 = findViewById(R.id.phone);
        Button b1 = findViewById(R.id.send);
        TextInputEditText t2 = findViewById(R.id.sms);

        // Request SEND_SMS permission if not granted
        if (ContextCompat.checkSelfPermission(this,
Manifest.permission.SEND_SMS)
            != PackageManager.PERMISSION_GRANTED) {
            ActivityCompat.requestPermissions(this,
                new String[]{Manifest.permission.SEND_SMS},
                MY_PERMISSIONS_REQUEST_SEND_SMS);
        }

        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String phone = t1.getText().toString().trim();
                String sms = t2.getText().toString().trim();

                sendSMS(phone, sms);
            }
        });
    }

    private void sendSMS(String phoneNumber, String message) {
        try {
            SmsManager smsManager = SmsManager.getDefault();
            PendingIntent sentIntent = PendingIntent.getBroadcast(this, 0,
new Intent("SMS_SENT"), PendingIntent.FLAG_IMMUTABLE);
            smsManager.sendTextMessage(phoneNumber, null, message,
sentIntent, null);
            Toast.makeText(this, "SMS sent!", Toast.LENGTH_SHORT).show();
        } catch (Exception e) {
            Toast.makeText(this, "Failed to send SMS",
Toast.LENGTH_SHORT).show();
            e.printStackTrace();
        }
    }

    @Override
    public void onRequestPermissionsResult(int requestCode, String[]
permissions, int[] grantResults) {
        super.onRequestPermissionsResult(requestCode, permissions,
grantResults);
        if (requestCode == MY_PERMISSIONS_REQUEST_SEND_SMS) {
            if (grantResults.length > 0 && grantResults[0] ==
PackageManager.PERMISSION_GRANTED) {
                // Success
            } else {
                // Permission denied
            }
        }
    }
}

```

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        Toast.makeText(this, "Permission denied. Cannot send SMS.",
        Toast.LENGTH_SHORT).show();
    }
}
}
}
}

```

