

CREATE AN APP TO SEND SMS

MainActivity.kt

```
package com.example.sms

import android.Manifest
import android.content.pm.PackageManager
import android.os.Bundle
import android.telephony.SmsManager
import android.widget.Button
import android.widget.EditText
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity
import androidx.core.app.ActivityCompat
import androidx.core.content.ContextCompat

class MainActivity : AppCompatActivity() {

    private lateinit var etPhoneNumber: EditText
    private lateinit var etMessage: EditText
    private lateinit var btnSendSms: Button

    companion object {
        const val PERMISSION_REQUEST_SEND_SMS = 1
    }

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        etPhoneNumber = findViewById(R.id.etPhoneNumber)
        etMessage = findViewById(R.id.etMessage)
        btnSendSms = findViewById(R.id.btnSendSms)

        btnSendSms.setOnClickListener {
            sendSms()
        }

        private fun sendSms() {
            val phoneNumber = etPhoneNumber.text.toString().trim()
            val message = etMessage.text.toString().trim()

            if (phoneNumber.isNotEmpty() && message.isNotEmpty()) {
                if (ContextCompat.checkSelfPermission(this,
Manifest.permission.SEND_SMS)
                    == PackageManager.PERMISSION_GRANTED) {
                    val smsManager = SmsManager.getDefault()
                    smsManager.sendTextMessage(phoneNumber, null, message,
null, null)

                    Toast.makeText(this, "SMS sent successfully!",
Toast.LENGTH_LONG).show()
                } else {
                    ActivityCompat.requestPermissions(this,
```

```

        arrayOf(Manifest.permission.SEND_SMS),
        PERMISSION_REQUEST_SEND_SMS)
    }
    } else {
        Toast.makeText(this, "Please enter both phone number and
        message", Toast.LENGTH_SHORT).show()
    }
}

override fun onRequestPermissionsResult(requestCode: Int, permissions:
Array<String>, grantResults: IntArray) {
    if (requestCode == PERMISSION_REQUEST_SEND_SMS) {
        if (grantResults.isNotEmpty() && grantResults[0] ==
PackageManager.PERMISSION_GRANTED) {
            sendSms()
        } else {
            Toast.makeText(this, "Permission denied to send SMS",
            Toast.LENGTH_LONG).show()
        }
    }
}
}
}

```

activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="16dp">

    <EditText
        android:id="@+id/etPhoneNumber"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter Phone Number"
        android:inputType="phone"
        android:layout_marginBottom="8dp"/>

    <EditText
        android:id="@+id/etMessage"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter Message"
        android:inputType="textMultiLine"
        android:layout_marginBottom="8dp"/>

    <Button
        android:id="@+id/btnSendSms"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Send SMS" />

</LinearLayout>

```

Add this user-feature and user-permission in AndroidManifest.xml

```
<?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-feature
        android:name="android.hardware.telephony"
        android:required="false" />

    <uses-permission android:name="android.permission.SEND_SMS" />
    <uses-permission android:name="android.permission.READ_PHONE_STATE" />
</manifest>
```