



# Android Class

**#Android Notes**

# **SMS In Android**



# SMS

- We can send SMS from our android application in two ways either by using **SMSManager** api or [Intents](#) based on our requirements.
- If we use **SMSManager** api, it will directly send SMS from our application.
- In case if we use [Intent](#) with proper action (**ACTION\_VIEW**), it will invoke built-in SMS app to send SMS from our application.



# Android Send SMS using SMSManager API

- In android, to send SMS using SMSManager API we need to write following code.
- Create object of SmsManager using getDefault() method.

**SmsManager sms=SmsManager.getDefault();**

- getDefault() method is a inbuilt method of SmsManager API that should be invoked while creating object of SmsManager to get the default instance of the SmsManager.



# sendTextMessage()

- `sendTextMessage()` method is used to send a text based SMS.
- Syntax :-
  - **`void sendTextMessage(String destinationAddress, String scAddress, String text, PendingIntent sentIntent, PendingIntent deliveryIntent)`**
- Code :-
  - **`sms.sendTextMessage(MobileNumber,null,Message,null,null);`**
  - We have to pass `destinationAddress` & `text`. All other parameters we have keep as null.



# Permission

- **SMSManager** API required **SEND\_SMS** permission in our android manifest to send SMS.
- **<uses-permission android:name="android.permission.SEND\_SMS"/>**
- **<uses-permission android:name="android.permission.RECEIVE\_SMS"/>**



# Steps

- Create new project.
- Design activity\_main.xml as per your requirement.
- In MainActivity.java create object of controls and initialize it.
- In inside onClick() method of button take string variables that store content of EditText.
- Create object of SmsManager using getDefault() method.

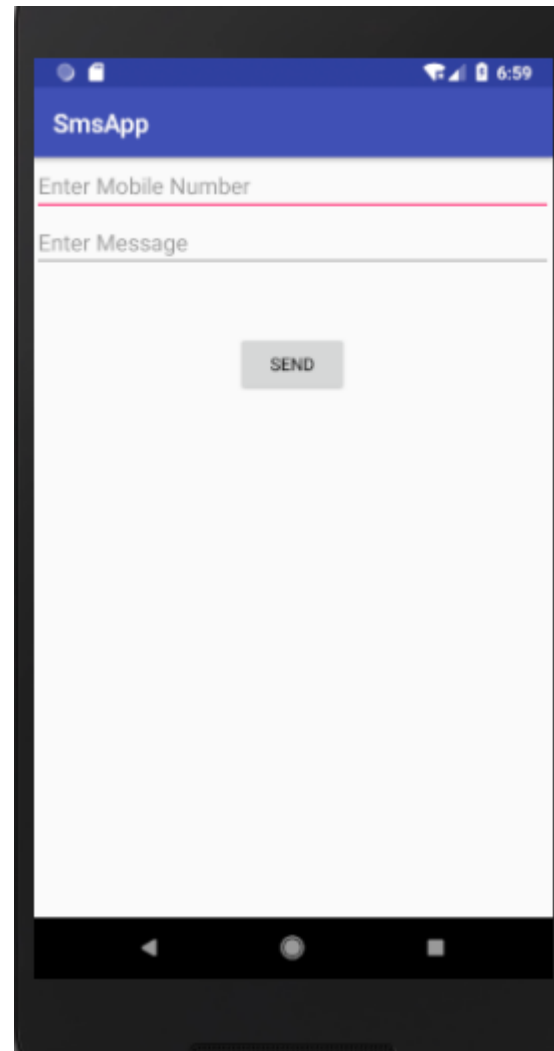
**SmsManager sms = SmsManager.getDefault();**

- Use sendTextMessage() method of SmsManager API to send text based SMS.

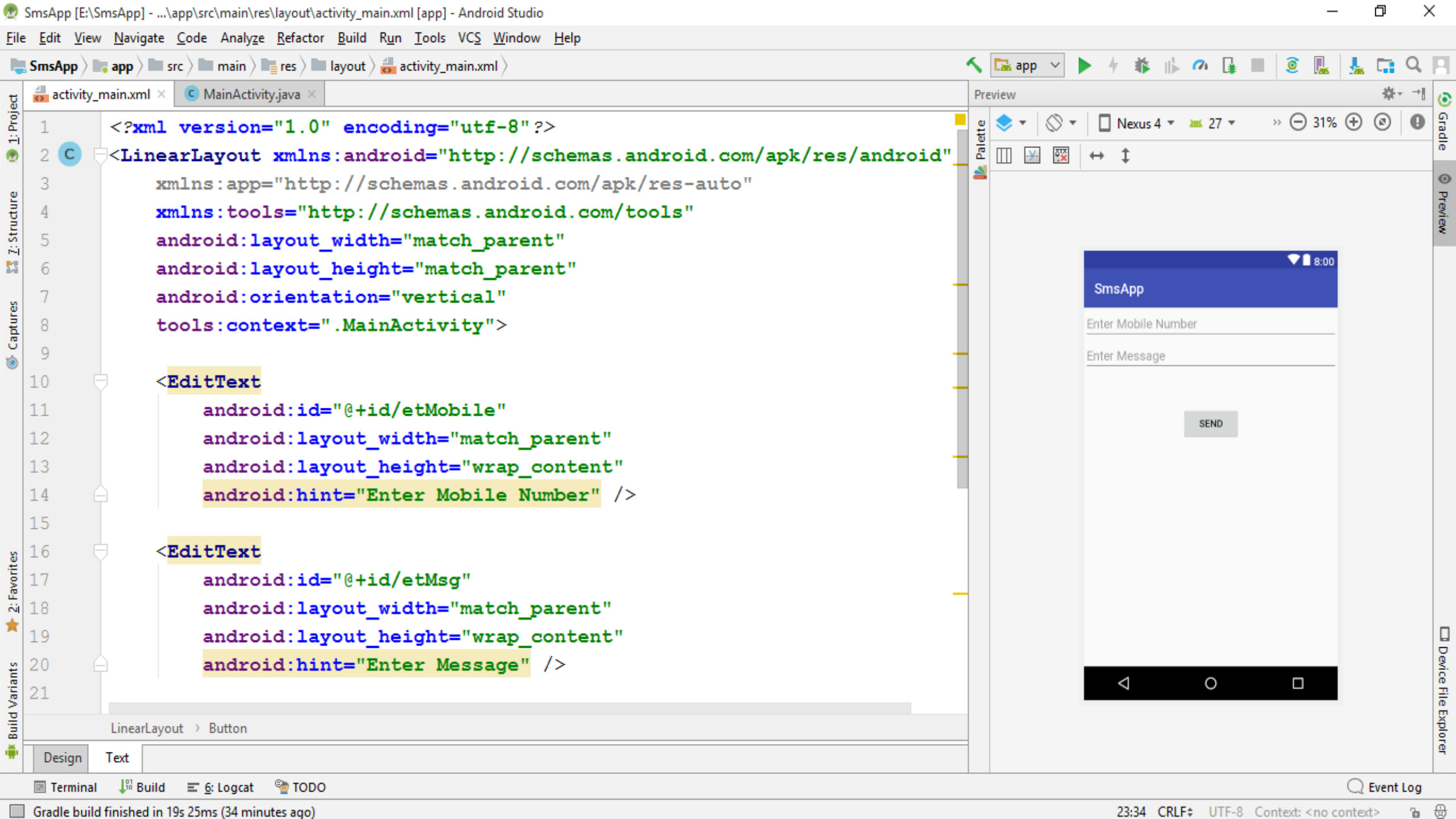
**sms.sendTextMessage(MobileNumber,null,Message,null,null);**

- Run your application.



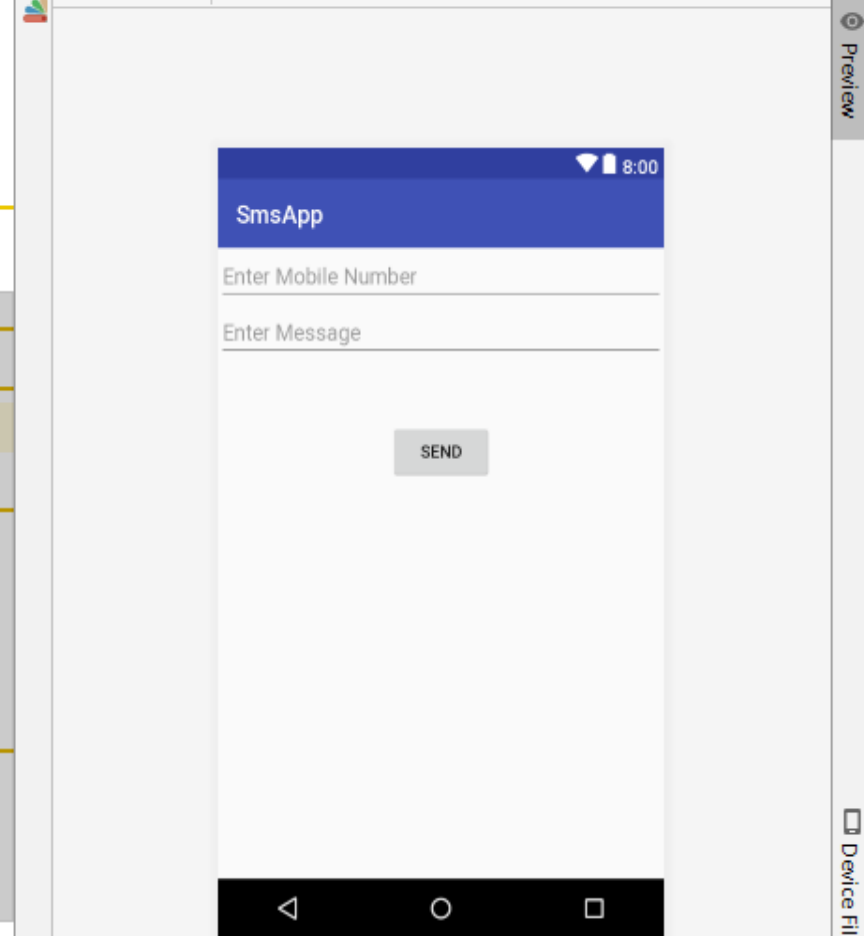
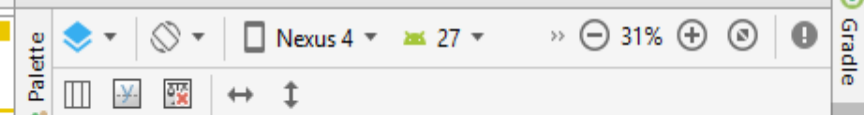






```
13         android:layout_height="wrap_content"
14         android:hint="Enter Mobile Number" />
15
16     <EditText
17         android:id="@+id/etMsg"
18         android:layout_width="match_parent"
19         android:layout_height="wrap_content"
20         android:hint="Enter Message" />
21
22     <Button
23         android:id="@+id/btnSend"
24         android:layout_width="wrap_content"
25         android:layout_height="wrap_content"
26         android:layout_gravity="center"
27         android:layout_marginTop="50dp"
28         android:text="SEND" />
29 </LinearLayout>
```

Preview

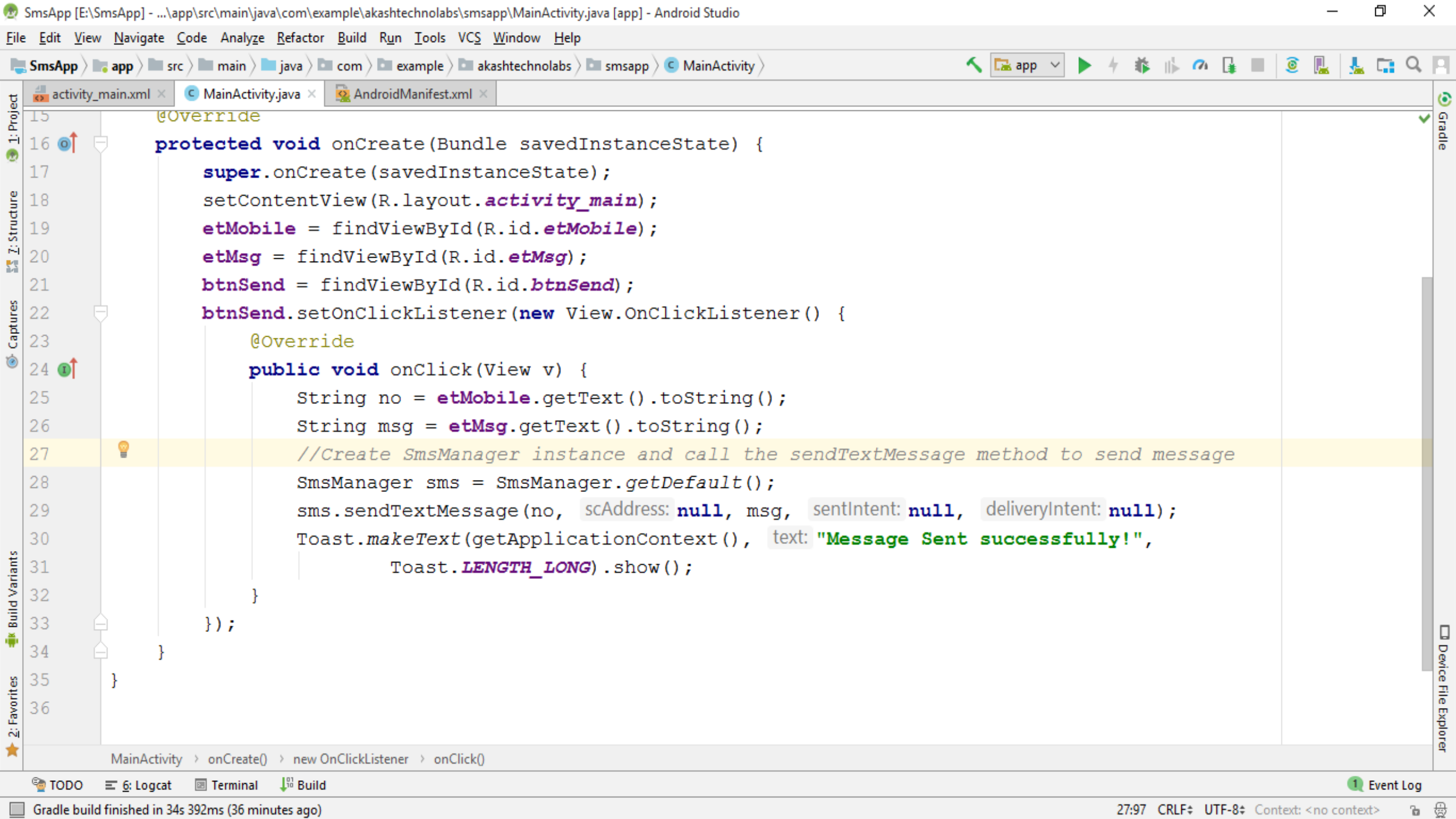


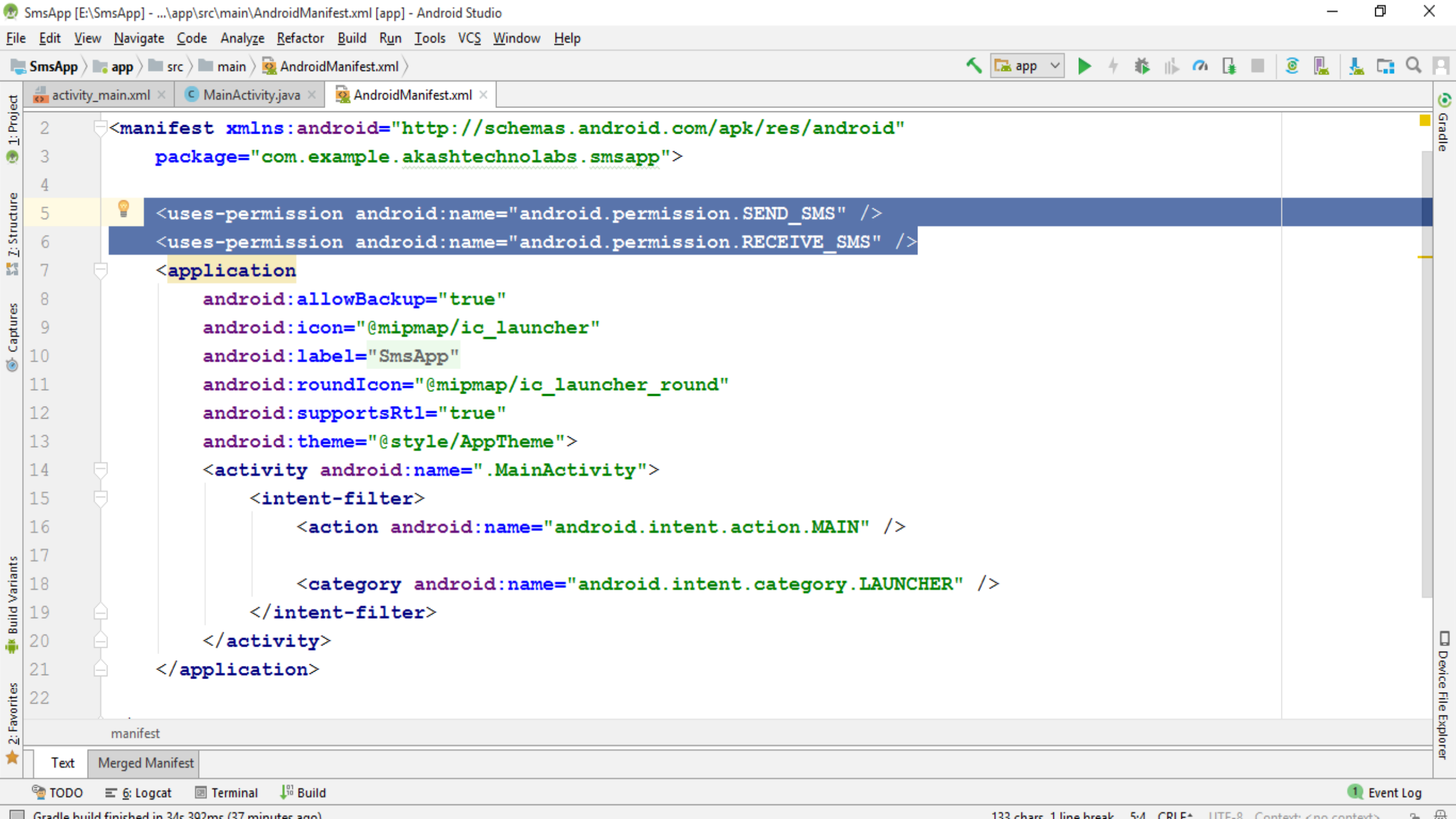
LinearLayout &gt; Button

Design

Text

```
1 package com.example.akashtechlabs.smsapp;
2
3 import ...
4
5
6
7
8
9 public class MainActivity extends AppCompatActivity {
10     EditText etMobile,etMsg;
11     Button btnSend;
12     @Override
13     protected void onCreate(Bundle savedInstanceState) {
14         super.onCreate(savedInstanceState);
15         setContentView(R.layout.activity_main);
16         etMobile=findViewById(R.id.etMobile);
17         etMsg=findViewById(R.id.etMsg);
18         btnSend=findViewById(R.id.btnSend);
19         btnSend.setOnClickListener(new View.OnClickListener() {
20             @Override
21             public void onClick(View v) {
22
23             }
24         });
25     }
26 }
```



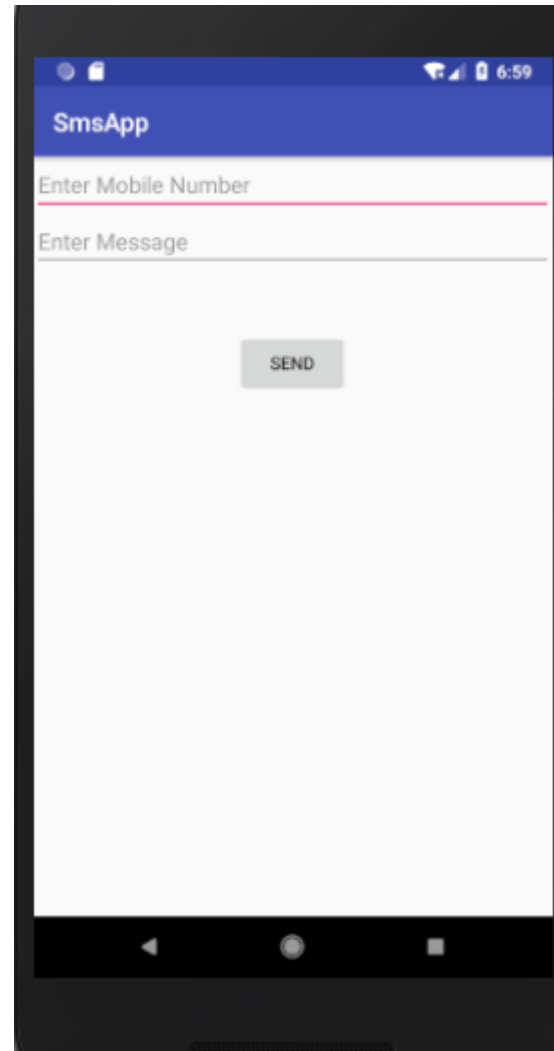


## Note :-

- **To run this application you have to connected your actual Android Mobile device with your computer.**



# Output



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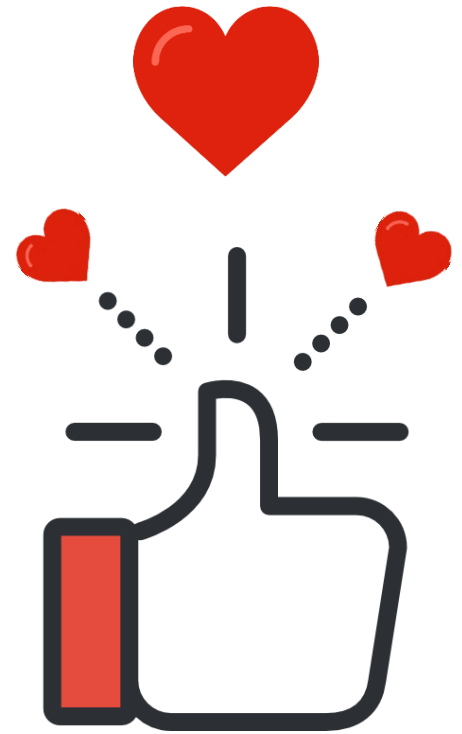
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