

Enterprise Application Development

PRACTICAL WORK

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Chapter 5:

Java classes:

fill_model.java

```
package com.example.chapter5;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;

public class fill_model extends AppCompatActivity {

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

linearlayout.java

```
package com.example.chapter5;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent; import
android.os.Bundle; import
android.view.View; import
android.widget.AdapterView; import
android.widget.ArrayAdapter; import
android.widget.ListView; import
android.widget.TextView;

public class linearlayout extends AppCompatActivity {

    ListView listview = null;

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

        listview = findViewById(R.id.listview2);

        String[] items = {"orientation", "fill
            model", "weight", "gravity", "padding &
            margin"};

        ArrayAdapter<String> adpt = new
ArrayAdapter<String>(this,R.layout.list_view,items); listview.setAdapter(adpt);
listview.setOnItemClickListener(new AdapterView.OnItemClickListener() {
    @Override

        public void onItemClick(AdapterView<?> adapterView, View view, int i,
long l){ switch(i){
            case 0:{
                startActivity(new
                    Intent(getApplicationContext(),ll_orientation.class)); break;
            }
            case 1:{
                startActivity(new
                    Intent(getApplicationContext(),ll_weight.class)); break;
            }
            case 2:{
                startActivity(new
                    Intent(getApplicationContext(),ll_gravity.class)); break;
            }
            case 3:{
                startActivity(new
                    Intent(getApplicationContext(),ll_padding_margin.class)); break;
            }
            default: {}
            }
        }
    }
}
```

```

    }
    case 1:{
        startActivity(new
            Intent(getApplicationContext(),fill_model.class)); break;
    }
    case 2:{
        startActivity(new
            Intent(getApplicationContext(),ll_weight.class)); break;
    }
    case 3:{
        startActivity(new
            Intent(getApplicationContext(),ll_gravity.class)); break;

    }
    case 4:{

        startActivity(new
            Intent(getApplicationContext(),padding.class)); break;

    }

    }

    }

});
}

}

```

ll_gravity.java

```
package com.example.chapter5;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;

public class Il_gravity extends AppCompatActivity {

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

Il_orientation.java

```
package com.example.chapter5;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import
android.widget.AdapterView; import
android.widget.AdapterView; import
android.widget.ArrayAdapter; import
android.widget.LinearLayout; import
android.widget.ListView; import
android.widget.TextView;

public class Il_orientation extends AppCompatActivity {

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

```
ListView listView = findViewById(R.id.listview3);
TextView textView =
findViewById(R.id.textView3); String[] items =
{"horizontal","vertical"}; listView.setAdapter(new
ArrayAdapter<String>(this,R.layout.list_view,items));
listView.setOnItemClickListener(new
AdapterView.OnItemClickListener() {
    @Override
    public void onItemClick(AdapterView<?> adapterView, View view, int i,
        long l) { Intent intent = new
        Intent(getApplicationContext(),orientation.class); switch(i){ case
        0:{
            intent.putExtra("orientation",0
            ); startActivity(intent);
            break;
        }
        case 1:{
            intent.putExtra("orientation",1
            ); startActivity(intent);
```

```

        break;
    }

    }

});
}

}

```

ll_weight.java

```

package com.example.chapter5;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class ll_weight extends AppCompatActivity {

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

```

MainActivity.java

```

package com.example.chapter5;

import androidx.appcompat.app.AppCompatActivity;

```

```
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import
android.widget.AdapterView;
import
android.widget.ArrayAdapter;
import android.widget.ListView;
import
android.widget.TextView;

public class MainActivity extends
    AppCompatActivity { ListView listview = null; TextView
textView =
null; Intent intent = null;
@Override protected void
onCreate(Bundle
savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);

listview = findViewById(R.id.listview1);

String[] items = {"Linear
Layout", "RelativeLayout",
"TableLayout", "ScrollView"};
ArrayAdapter<String> adpt = new
ArrayAdapter<String>(this,
R.layout.list_view, items);
listview.setAdapter(adpt);
listview.setOnItemClickListener(new
AdapterView.OnItemClickListener() { @Override
```

```
public void onItemClick(AdapterView<?> adapterView, View view, int i,
long l) { switch(i){
    case 0:{
        intent = new Intent(getApplicationContext(),
        linearlayout.class); startActivity(intent);
        break;
    }
    case 1:{
        startActivity(new
        Intent(getApplicationContext(),RelativeLayout.class)); break;

    }
    case 2:{
        startActivity(new
        Intent(getApplicationContext(),TableLayout.class)); break;

    }
    case 3:{
        startActivity(new
        Intent(getApplicationContext(),ScrollViewLayout.class)); break;

    }
    case 4:{

    }
}
}
});

}
```


orientation.java

```
package com.example.chapter5;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;
```

```
import
```

```
android.widget.LinearLayout;
```

```
import
```

```
android.widget.TextView;
```

```
public class orientation extends
```

```
    AppCompatActivity { @Override protected
```

```
    void onCreate(Bundle
```

```
        savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_orientation);
```

```
        Bundle b = getIntent().getExtras();
```

```
        LinearLayout temp =
```

```
        findViewById(R.id.orientation); if(b!=null){
```

```
        if(b.getInt("orientation")==1){
```

```
            temp.setOrientation(LinearLayout.VERTICAL)
```

```
            CAL);
```

```
        }else if(b.getInt("orientation")==0){
```

```
            temp.setOrientation(LinearLayout.HORIZONTAL)
```

```
            TAL);
```

```
        }
```

```
    }
```

```
}
```

```
}
```

padding.java

```
package com.example.chapter5;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;

public class padding extends AppCompatActivity {

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

relativelayout.java

```
package com.example.chapter5;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;

public class relativelayout extends AppCompatActivity {

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

```
    }  
}
```

scrollviewlayout.java

```
package com.example.chapter5;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
  
public class scrollviewlayout extends AppCompatActivity {  
  
    @Override protected void  
    onCreate(Bundle  
        savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_scrollviewlayo  
            ut);  
    }  
}
```

tablelayout.java

```
package com.example.chapter5;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
  
public class tablelayout extends AppCompatActivity {  
  
    @Override protected void  
    onCreate(Bundle
```

```

        savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_tablelayout);
    }
}

```

Xml layouts:

activity_fill_model.xml

```

<?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"
    android:orientation="vertical" android:background="#ff0033cc"
    tools:context=".fill_model">

    <TextView
        android:id="@+id/labelUserName"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" android:background="#ffff0066"
        android:text="User Name"
        android:textSize="16sp"
        android:textStyle="bold"
        android:textColor="#ff000000"
        />

    <EditText android:layout_width="match_parent"
        android:layout_height="wrap_content" android:background="#ff0033cc"
        android:hint="Enter Username"
        android:inputType="text"
        android:padding="10dp"
        android:textColor="#ff0033cc"
        android:textColorHint="#ff0033cc"
        android:textSize="16sp"
        />

```

```
        android:layout_height="wrap_content"
        android:textSize="18sp"
    />
```

```
<Button android:id="@+id/btnGo"
        android:layout_width="125dp"
        android:layout_height="wrap_content"
        android:text="Go"
        android:textStyle="bold"
    />
```

</LinearLayout> activity_linear_layout.xml

```
<?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" android:orientation="vertical"
    tools:context=".linearlayout"
>

<TextView
    android:id="@+id/textView"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Linear Layout"
    android:gravity="center"
    android:layout_marginTop="10dp"
    />
```

```
<ListView
    android:id="@+id/listview"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:layout_marginTop="50dp"
/>
</LinearLayout>
```

activity_ll_gravity.xml

```
<?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"
    android:orientation="vertical" tools:context=".ll_gravity">
    <TextView
        android:id="@+id/labelUserName"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:background="#ffff0066"
        android:text="User Name"
        android:textSize="16sp"
        android:textStyle="bold"
        android:textColor="#ff000000"
        android:gravity="center"
    />

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="18sp"
    />

    <Button
        android:id="@+id/btnGo"
        android:layout_width="125dip"
        android:layout_height="wrap_content"
        android:text="Go"
```

```
        android:textStyle="bold"
        android:layout_gravity="right"
    />
```

```
</LinearLayout>
```

activity_ll_orientation.xml

```
<?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:id="@+id/ll_orientation"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical" tools:context=".ll_orientation">

    <TextView
        android:id="@+id/textView3"
        android:layout_width="match_paren
        t"
        android:layout_height="wrap_conte
        nt" android:text="Vertical"
        android:gravity="center"
        android:layout_marginTop="10dp" />

    <ListView
        android:id="@+id/listview
        3"
        android:layout_width="match_paren
        t"
```



```
        android:layout_height="wrap_content"
        android:gravity="center"
        android:layout_marginTop="50dp"
    />
</LinearLayout>
```

activity_ll_weight.xml

```
<?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" android:orientation="vertical"
    tools:context=".ll_weight">
    <TextView
        android:id="@+id/labelUserName"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:background="#ffff0066"
        android:text="User Name"
        android:textSize="16sp"
        android:textStyle="bold"
        android:textColor="#ff000000"
```

```
android:layout_weight="1"
```

```
/>
```

```
<EditText
```

```
    android:layout_width="match_parent"
```

```
    android:layout_height="wrap_content" android:textSize="18sp"
```

```
    android:layout_weight="2"
```

```
/>
```

```
<Button
```

```
    android:id="@+id/btnGo"
```

```
    android:layout_width="125dip"
```

```
    android:layout_height="wrap_content" android:text="Go"
```

```
    android:textStyle="bold"
```

```
    android:layout_weight="1"
```

```
/>
```

```
</LinearLayout>
```

activity_main.xml

```
<?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"
android:orientation="vertical"
tools:context=".MainActivity">
```

```
<ListView android:id="@+id/listview1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content" android:gravity="center"
/>
```

```
</LinearLayout>
```

activity_orientation.xml

```
<?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:id="@+id/orientation"
    android:layout_width="match_parent"
    android:layout_height="match_parent" android:orientation="horizontal"
    android:background="#ff0033cc"
    tools:context=".orientation">
    <TextView
        android:id="@+id/labelUserName"
        android:layout_width="wrap_content
    "
```

```

        android:layout_height="wrap_content"
        android:background="#ffff0066"
        android:text="User Name"
        android:textSize="16sp"
        android:textStyle="bold"
        android:textColor="#ff000000"
    />

    <EditText
        android:id="@+id/ediName"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="18sp"
    />

    <Button android:id="@+id/btnGo"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Go"
        android:textStyle="bold"
    />
</LinearLayout>

activity_padding.xml
<?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"
android:orientation="vertical" tools:context=".padding">
```

```
<TextView
```

```
    android:id="@+id/labelUserName"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="#ffff0066"
    android:text="User Name"
    android:textSize="16sp"
    android:textStyle="bold"
    android:textColor="#ff000000"
/>
```

```
<EditText
```

```
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="18sp"
    android:padding="50dp"
    android:layout_margin="50dp"
/>
```

```
<Button
```

```
    android:id="@+id/btnGo"
    android:layout_width="125dp"
    android:layout_height="wrap_content"
    android:text="Go"
    android:textStyle="bold"
/>
```

```
</LinearLayout>
```

activity_relativelayout.xml

```
<?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:id="@+id/rl1" android:layout_width="match_parent"
    android:layout_height="match_parent" tools:context=".relativelayout">
    <TextView
        android:id="@+id/lblUserName"
        android:layout_width="match_parent"
        "
        android:layout_height="wrap_content"
        t" android:background="#ffff0066"
        android:text="User Name"
        android:textStyle="bold"
        android:textColor="#ff000000"
        android:layout_alignParentTop="true"
        e"
        android:layout_alignParentLeft="true"
        ">

    </TextView>
    <EditText android:id="@+id/ediUserName"
        android:layout_width="match_parent"
        t"
        android:layout_height="wrap_content"
        nt"
        android:layout_below="@+id/lblUserName"
        me"
        android:layout_alignParentLeft="true"
        android:padding="20dip"
```

```

        android:layout_alignTop="@+id/rl1"
        tools:ignore="NotSibling" />
<Button
    android:id="@+id/btnG
    o"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/ediUserName"
    android:layout_alignRight="@+id/ediUserNa
    me" android:text="Go"
    android:textStyle="bold">
</Button>
<Button android:id="@+id/btnCanc
    el"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_toLeftOf="@+id/btnGo"
    android:layout_below="@+id/ediUserNa
    me" android:text="Cancel"
    android:textStyle="bold">
</Button>

</RelativeLayout>

```

activity_scrollviewlayout.xml

```

<?xml version="1.0" encoding="utf-8"?>
<ScrollView
    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"
    android:background="#ff009999" tools:context=".scrollviewlayout">
    <LinearLayout android:id="@+id/myLinearLayoutVertic
        al"

```

```
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
>
<LinearLayout
    android:id="@+id/myLinearLayoutHorizontal1" android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="horizontal"
>
<ImageView
    android:id="@+id/myPicture"
    android:layout_width="wrap_content"
    "
    android:layout_height="wrap_content"
    android:src="@drawable/ic_launcher_background" />
<TextView
    android:id="@+id/textView1"
    android:layout_width="match_parent"
```



```
        android:layout_height="wrap_conte  
nt" android:text="Line1"  
        android:textSize="70dip" />  
</LinearLayout>  
<View  
    android:layout_width="match_paren  
t" android:layout_height="6dip"  
    android:background="#ffccffcc" />  
<TextView  
    android:id="@+id/textView  
2" android:layout_width="match_paren  
t"  
    android:layout_height="wrap_conte  
nt" android:text="Line2"  
    android:textSize="70dip" />  
<View  
    android:layout_width="match_paren  
t" android:layout_height="6dip"  
    android:background="#ffccffcc" />  
<TextView  
    android:id="@+id/textView  
3" android:layout_width="match_paren  
t"  
    android:layout_height="wrap_conte  
nt" android:text="Line3"  
    android:textSize="70dip" />  
<View  
    android:layout_width="match_paren  
t" android:layout_height="6dip"  
    android:background="#ffccffcc" />  
<TextView  
    android:id="@+id/textView  
4" android:layout_width="match_parent"
```

```

        android:layout_height="wrap_conte
        nt" android:text="Line4"
        android:textSize="70dip" />
    <View
        android:layout_width="match_paren
        t" android:layout_height="6dip"
        android:background="#ffccffcc" />
    <TextView
        android:id="@+id/textView
        5"
        android:layout_width="match_paren
        t"
        android:layout_height="wrap_conte
        nt" android:text="Line5"
        android:textSize="70dip" />
</LinearLayout>

```

```

</ScrollView>

```

activity_tablelayout.xml

```

<?xml version="1.0" encoding="utf-8"?>
<TableLayout
    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"
    android:orientation="vertical" android:stretchColumns
    ="2,3,4"
    tools:context=".tablelayout">
    <TableRow>
        <TextView android:text="URL:"
        />
    </TableRow>

```

```

        <EditText android:id="@+id/ediUrl"
            android:layout_span="3"/>
    </TableRow>
    <View android:layout_height="3dip"
        android:background="#0000FF"
        />
    <TableRow>
        <Button android:id="@+id/cancel"
            android:layout_column="2"
            android:text="Cancel" />
        <Button android:id="@+id/ok"
            android:text="OK" />
    </TableRow>
    <View android:layout_height="3dip"
        android:background="#0000FF"
        />

</TableLayout>

```

list_view.xml

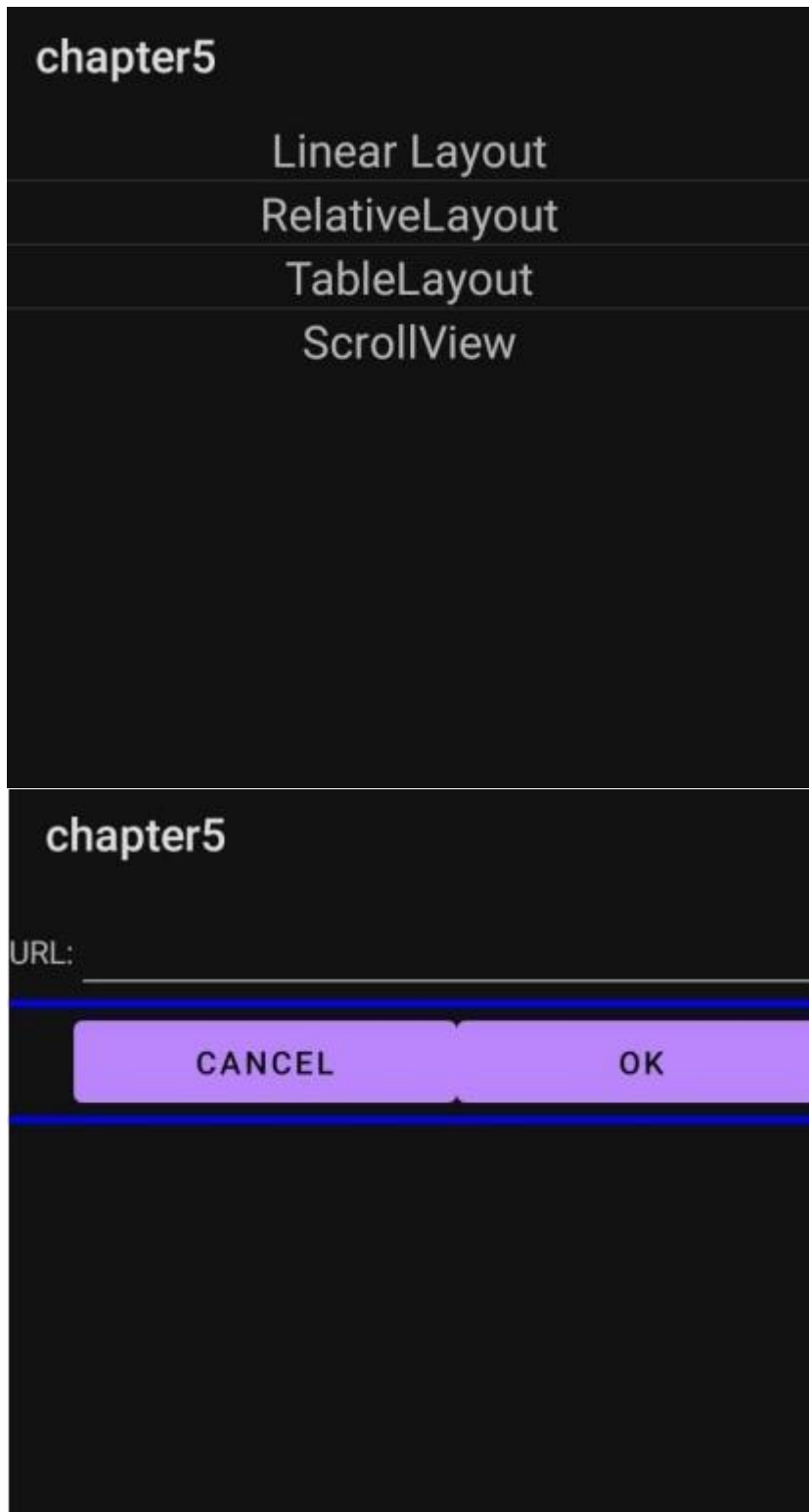
```

<?xml version="1.0" encoding="utf-8"?>
<TextView xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent" android:gravity="center"
    android:orientation="vertical"
    />

```

```
        android:textSize="20dp"  
    >  
</TextView>
```

Screenshots:



chapter5

User Name

GO

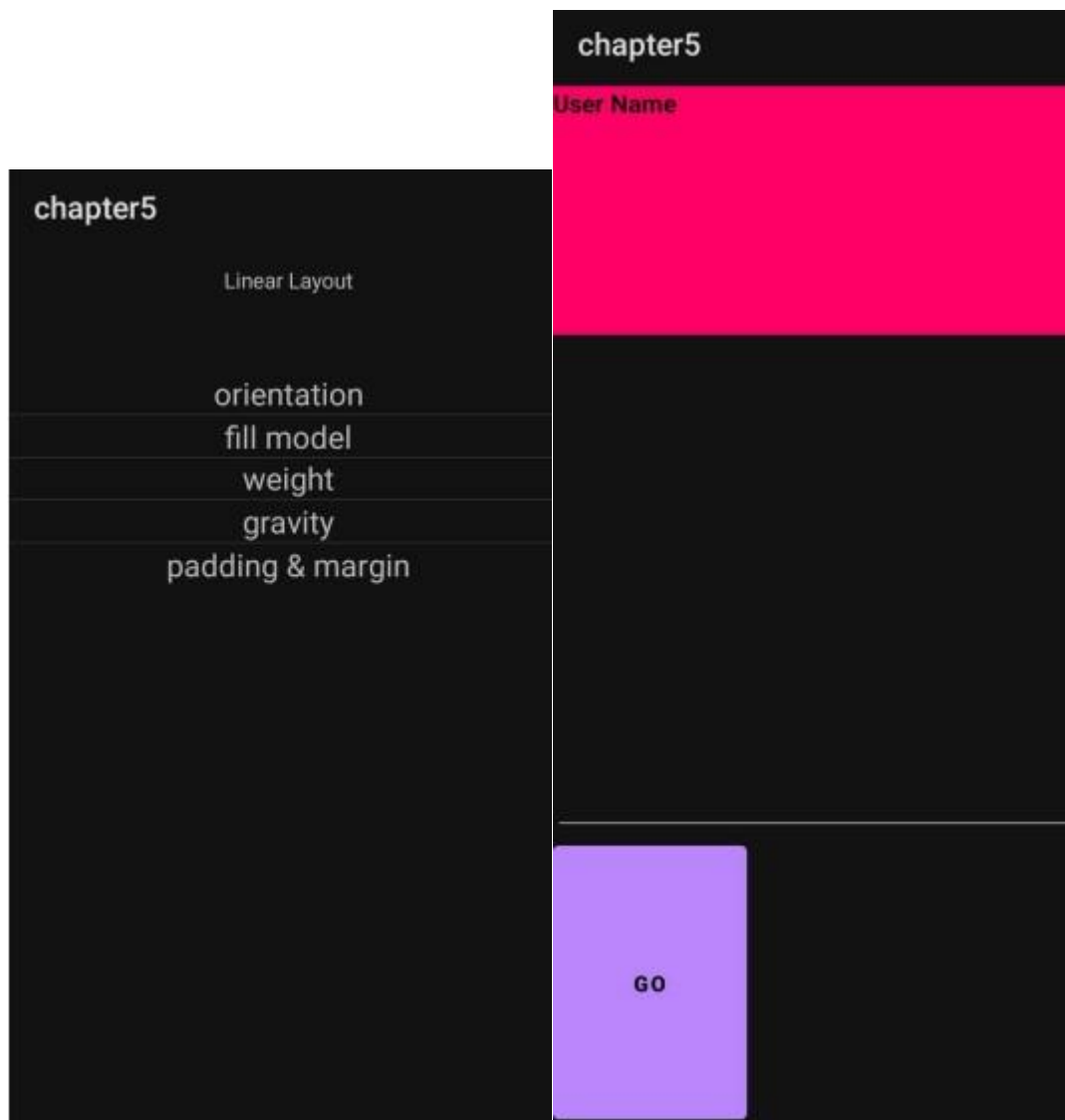
chapter5

User Name

CANCEL

GO





Chapter 6

Java classes:

ACTV.java

```
package com.example.chapter6;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle; import  
android.text.Editable; import  
android.text.TextWatcher; import
```

```
android.widget.AdapterView; import
```

```
android.widget.AdapterView; import
```

```
android.widget.AutoCompleteTextView; import
```

```
android.widget.TextView;
```

```
public class ACTV extends AppCompatActivity implements TextWatcher {
```

```
    AutoCompleteTextView
```

```
    _var1; TextView textView;
```

```
    String[] items= { "this", "is", "a",
```

```
        "really", "really2", "really3",
```

```
        "really4", "really5", "silly",
```

```
        "list"};
```

```
    @Override
```

```
    protected void onCreate(Bundle
```

```
        savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_actv)
```

```
        ; _var1 = findViewById(R.id.edit);
```

```
        textView = findViewById(R.id.txt2);
```

```
        ArrayAdapter<String> adp = new
```

```
        ArrayAdapter<String>(this,R.layout.tex
```

```
        tview,items);
```

```
        _var1.setAdapter(adp);
```

```
        _var1.addTextChangedListener(this);
```

```
    }
```

```
    @Override
```

```
    public void beforeTextChanged(CharSequence charSequence, int i, int i1, int i2) {
```

```
    }
```

```
    @Override
```

```
    public void onTextChanged(CharSequence charSequence, int i, int i1,
```

```
        int i2) { textView.setText(_var1.getText());
```

```
    }
```



```
@Override
public void afterTextChanged(Editable editable) {

}
}
```

customlists.java

```
package com.example.chapter6;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import android.app.Activity; import
android.content.Context; import
android.os.Bundle; import
android.view.LayoutInflater;
import android.view.View; import
android.view.ViewGroup; import
android.widget.AdapterView;
import android.widget.ImageView;
import android.widget.ListView;
import android.widget.TextView;

import org.w3c.dom.Text;

import
java.util.ArrayList;
import
java.util.Arrays;
import java.util.List;

public class customlists extends
    AppCompatActivity { private TextView txt5;
    ListView lv;
```

```
@Override
e
protected void onCreate(Bundle
    savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_customlists)
    ; txt5 = findViewById(R.id.txt5); lv =
    findViewById(R.id.list2);
    String[] items= { "this", "is", "a", "really", "really2",
        "really3", "really4", "really5", "silly", "list"}; //List<String> al =
        Arrays.asList(items);

    lv.setAdapter(new IconicAdapter(this,items));
```

```

    }

}

class IconicAdapter extends ArrayAdapter{

    Activity
    context;
    String[] items;
    IconicAdapter(Activity context,String[] items)
    { super(context,
    R.layout.customrow, items); this.context
    = context; this.items = new
    String[items.length]; this.items =
    items;
    }
    public View getView(int position, View convertView, ViewGroup
    parent) { LayoutInflater inflater = context.getLayoutInflater();
    View c_row =
    inflater.inflate(R.layout.customrow,null);
    TextView t = c_row.findViewById(R.id.txt6);
    t.setText(items[position]); return c_row;
    //ImageView i = c_row.findViewById(R.id.icon);

    }

}

```

gallery.java

```

package com.example.chapter6;

import androidx.appcompat.app.AppCompatActivity;

import

```

```

android.content.Context; import
android.os.Bundle; import
android.view.View; import
android.view.ViewGroup; import
android.widget.AdapterView; import
android.widget.BaseAdapter; import
android.widget.Gallery; import
android.widget.TextView; import
android.widget.ImageView;
public class gallery extends AppCompatActivity{

```

```

    TextView

```

```

    txt3; Gallery

```

```

    gllry;

```

```

    @Override

```

```

    protected void onCreate(Bundle

```

```

        savedInstanceState) {

```

```

        super.onCreate(savedInstanceState);

```

```

        setContentView(R.layout.activity_gallery)

```

```

        ; txt3 = findViewById(R.id.txt3); gllry =

```

```

        findViewById(R.id.myGallery);

```

```

        int[] img_ids = { R.drawable.image1, R.drawable.image2,

```

```

            R.drawable.image3,                R.drawable.image4,R.drawable.image1,

```

```

            R.drawable.image2,                R.drawable.image3,

```

```

            R.drawable.image4,R.drawable.image1,                R.drawable.image2,

```

```

            R.drawable.image3, R.drawable.image4 };

```

```

        gllry.setAdapter(new                ImageAdapter(this,img_ids,12));

```

```

        gllry.setOnItemClickListener(new
        AdapterView.OnItemClickListener() {

```

```

            @Override

```

```

            public void onItemClick(AdapterView<?> adapterView, View view, int i,

```

```

                long l) { txt3.setText(" selected option: " + i );

```

```

    }

    @Override
    public void onNothingSelected(AdapterView<?> adapterView) {

    }

});

}

}

```

```

class ImageAdapter extends BaseAdapter{

    private Context myContext;
    // Put some images to project-folder: /res/drawable/
    // format: jpg, gif, png, bmp,
    ... private int[]
    myImageIds;
    /** Simple Constructor saving the 'parent'
    context. */ public ImageAdapter(Context c) {
        myImageIds = new int[]{ R.drawable.image1,
            R.drawable.image2, R.drawable.image3,
            R.drawable.image4 };
        this.myContext = c;
    }
    public ImageAdapter(Context c,int[] img_ids, int count)
    {
        this.myContext = c; myImageIds
        = new
        int[count];
        for(int k=0;k<count;k++){myImageIds[k] = img_ids[k];}
    }
}

```

```

    }

    // inherited abstract methods - must be implemented
    // Returns count of images, and individual
    IDs @Override public int getCount() {
        return this.myImageIds.length;
    }

    @Override public
    Object getItem(int
        i) { return i;
    }

    @Override
    public long getItemId(int
        i) { return i;
    }

    @Override
    public View getView(int i, View view, ViewGroup viewGroup) {
        // Get a View to display image data
        ImageView iv = new
        ImageView(this.myContext);
        iv.setImageResource(this.myImageIds[i]);
        // Image should be scaled somehow
        //iv.setScaleType(ImageView.ScaleType.CENTER);
        //iv.setScaleType(ImageView.ScaleType.CENTER_CROP);
        //iv.setScaleType(ImageView.ScaleType.CENTER_INSIDE);
        //iv.setScaleType(ImageView.ScaleType.FIT_CENTER);
        //iv.setScaleType(ImageView.ScaleType.FIT_X
        Y);
        iv.setScaleType(ImageView.ScaleType.FIT_
        END);
        //iv.setScaleType(ImageView.ScaleType.FIT_START);
        // Set the Width & Height of the individual images
        iv.setLayoutParams(new

```

```
        Gallery.LayoutParams(90, 75)); return iv;
    }
}
```

gridview.java

```
package com.example.chapter6;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import
```

```
android.widget.AdapterView
```

```
; import
```

```
android.widget.ArrayAdapter; import
```

```
android.widget.GridView; import
```

```
android.widget.TextView;
```

```
public class gridview extends AppCompatActivity implements
AdapterView.OnItemClickListener {
```

```
    GridView grdV;
```

```
    TextView
```

```
    textView;
```

```
    String[] items= { "this", "is", "a", "really", "really2", "really3","really4", "really5", "silly",
    "list"};
```

```
    @Override
```

```
    protected void onCreate(Bundle
```

```
        savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_gridview);
```

```

        grdV = findViewById(R.id.grdv);
        textView =
            findViewById(R.id.txt1);
        ArrayAdapter<String> adp = new ArrayAdapter<String>
            >(this,R.layout.textview,items); grdV.setAdapter(adp);
        grdV.setOnItemClickListener(this);

    }

    @Override
    public void onItemClick(AdapterView<?> adapterView, View view, int i,
        long l) { switch(adapterView.getId()){
        case R.id.grdv:{
            textView.setText(items[i]
                ); break;
            }
        }
    }
}

```

imgGridView.java

```

package com.example.chapter6;

import androidx.appcompat.app.AppCompatActivity;

import
    android.annotation.SuppressLint;
import android.content.Context;
import android.content.Intent;
import android.os.Bundle; import
    android.view.View;

```



```
import android.view.ViewGroup;
import android.widget.Adapter; import
android.widget.AdapterView; import
android.widget.BaseAdapter;
import android.widget.Button;
import android.widget.GridView;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toast;
```

```
public class imgGridView extends AppCompatActivity implements
AdapterView.OnItemClickListener
{
```

```
    TextView tvMsg;
```

```
    GridView gridview;
```

```
    TextView
```

```
tvSoloMsg; int[]
```

```
mThumbIds;
```

```
    ImageView
```

```
ivSoloPicture; Button
```

```
btnBack; Intent
```

```
startintent;
```

```
@Override
```

```
protected void onCreate(Bundle
```

```
    savedInstanceState) {
```

```
    super.onCreate(savedInstanceState);
```

```
    setContentView(R.layout.activity_img_grid_vi
```

```
    e w); startintent = getIntent(); tvMsg =
```

```
    findViewById(R.id.tvMsg); gridview =
```

```
    findViewById(R.id.gridview2);
```

```
    mThumbIds = new int[]{R.drawable.image1,R.drawable.image2,
```

```
        R.drawable.image3,R.drawable.image4,R.drawable.image1,R.drawable.i
        mage2,
```

```
        R.drawable.image3,R.drawable.image4,R.drawable.image1,R.drawable.i
        mage2, R.drawable.image3,R.drawable.image4}; gridview.setAdapter(new
        GridImageAdapter(this,mThumbIds));
```

```

        gridView.setOnItemClickListener(this);

    }

    @Override
    public void onItemClick(AdapterView<?> adapterView, View view, int i,
        long l) { tvMsg.setText("Position: "+ i +
            " R.drawable.gallery_photo_" + (i+1) );
        // show selected picture in an individual view
        showScreen2(i);
    }

    private void showScreen2(int position){
        // show the selected picture as a single frame
        setContentView(R.layout.solo_pic);
        tvSoloMsg=
        findViewById(R.id.tvSoloMsg);
        ivSoloPicture= findViewById(R.id.imgSoloPhoto);
        tvSoloMsg.setText("image "+ position);
        ivSoloPicture.setImageResource(mThumbIds[positi
on]); btnBack= findViewById(R.id.btnBack);
        btnBack.setOnClickListener(new
        View.OnClickListener() {
            @Override public void
            onClick(View view) {
                startActivity(startintent);
            }

        });

    }

    // redraw the main screen beginning the whole app.

}

```

```

class GridImageAdapter extends BaseAdapter{

private Context
    mContext; private int
    mThumbIds[];

public GridImageAdapter(Context c,int[]
    ids){ this.mContext = c; mThumbIds
    = new int[ids.length];
    for(int k=0;k<ids.length;k++){mThumbIds[k]=ids[k];}
}

@Override
public int getCount() {
    return mThumbIds.length;
}

@SuppressLint("WrongConstant") @Override public Object
getItem(int i) {
    Toast.makeText(mContext, "Pos: " + i,
    1).show(); return null;
}

@Override
public long getItemId(int
    i) { return 0;
}
@Override
public View getView(int i, View view, ViewGroup
    viewGroup) { ImageView imageView;
    if (view == null) {
// if it's not recycled, initialize some attributes
        imageView = new
        ImageView(mContext);
        imageView.setLayoutParams(new
        GridView.LayoutParams(85, 85));
    }
    int thumbId = mThumbIds[i];
    int labelId = i + 1;
    String label = "Thumb " + labelId;
    imageView.setImageResource(thumbId);
    TextView textView = new TextView(mContext);
    textView.setText(label);
    textView.setLayoutParams(new
    LinearLayout.LayoutParams(
    ViewGroup.LayoutParams.MATCH_PARENT,
    85));
    textView.setTextColor(Color.BLACK);
    return new LinearLayout(mContext)
    .addView(imageView)
    .addView(textView);
}
}

```

```

        imageView.setScaleType(ImageView.ScaleType.CENTER_C
ROP); imageView.setPadding(8, 8, 8, 8); }
else {
    imageView = (ImageView) view;
}
imageView.setImageResource(mThumbld
s[i]); return imageView;
}
}

```

MainActivity.java

```

package com.example.chapter6;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import
android.graphics.ColorSpace;
import android.os.Bundle; import
android.view.View; import
android.widget.Adapter; import
android.widget.AdapterView;
import
android.widget.ArrayAdapter; import
android.widget.Spinner; import
android.widget.TextView;

public class MainActivity extends AppCompatActivity
implements AdapterView.OnItemClickListener {

private Spinner spinner; //private
    TextView textView; String[]
    spinner_items; @Override
    protected void onCreate(Bundle

```

```

savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    spinner = findViewById(R.id.spinner);
    //textView = findViewById(R.id.textView);
    spinner_items = new String[]{"Select Option
    from
    spinner", "GridView", "AutoCompleteTextView",
        "gallery widget", "Image based GridView", "Customized Lists"};
    ArrayAdapter<String> adp = new
    ArrayAdapter<String>(this, R.layout.textview, spinner_items);
    adp.setDropDownViewResource(R.layout.textview);
    spinner.setAdapter(adp);
    spinner.setOnItemSelectedListener(t
    his);
}
@Override
public void onItemSelected(AdapterView<?> adapterView, View view, int i,
    long l) { switch(adapterView.getId()){
    case
        R.id.spinner:{
        switch(i){ case
        1:{
        startActivity(n
        ew
        Intent(getApplicationContext(),gridview.class)); break;

```

```

    }
    case 2:{
        startActivity(new
            Intent(getApplicationContext(),ACTV.class)); break;
    }
    case 3:{
        startActivity(new
            Intent(getApplicationContext(),gallery.class)); break;
    }
    case 4:{
        startActivity(new
            Intent(getApplicationContext(),imgGridView.class)); break;
    }
    case 5:{
        startActivity(new
            Intent(getApplicationContext(),customlists.class));
        break;
    }

}
break;
}
}

}

```

```

@Override
public void onNothingSelected(AdapterView<?> adapterView) {
}

}

```

Xml layouts:
activity_actv.xml

```
<?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"

android:orientation="vertical" tools:context=".ACTV">

<TextView android:id="@+id/txt2"

"

android:layout_width="fill_parent"

android:layout_height="wrap_content" android:background="#ff0033cc"

android:textSize="14pt"

android:textStyle="bold"

/>

<AutoCompleteTextView

android:layout_width="match_parent"

android:layout_height="wrap_content"

android:completionThreshold="3"

android:id="@+id/edit"

/>

</LinearLayout>

activity_customlists.xml

<?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"

android:orientation="vertical"

>

<TextView android:id="@+id/txt5"

"

android:layout_width="match_paren

t"

android:layout_height="wrap_conte

nt" android:background="#ff0033cc"

android:textSize="20px"

android:textStyle="bold"

android:textColor="#ffffff"

>

</TextView>

<ListView

android:id="@+id/list2"

"

android:layout_width="match_paren

t"

android:layout_height="match_pare

nt"

>


```
</ListView>
```

```
</LinearLayout  
>
```

activity_gallary.xml

```
<?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"  
    android:orientation="vertical" tools:context=".gallary">  
  
    <TextView  
        android:layout_width="match_paren  
        t"  
        android:layout_height="wrap_conte  
        nt"  
        android:text="SDK1.5 /samples/.../view/Gallery1.java" />  
    <TextView android:id="@+id/txt3"  
        "  
        android:layout_width="match_paren  
        t"  
        android:layout_height="wrap_conte  
        nt" android:background="#ff0000ff"
```

```
        />
    <Gallery
        android:id="@+id/myGaller
        y"
        android:layout_width="match_paren
        t"
        android:layout_height="wrap_conte
        nt"

    />
```

</LinearLayout>

activity_gridview.xml

```
<?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"
    android:orientation="vertical" tools:context=".gridview">

    <TextView android:id="@+id/txt1"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content
        " android:background="#ff0033cc"
        android:textSize="14pt"
        android:textStyle="bold"

    />
```

```
<GridView
    android:id="@+id/grdv"
    android:background="#ff0000ff"
    android:layout_width="match_parent"
    android:layout_height="match_parent" android:verticalSpacing="35px"
    android:horizontalSpacing="5px"
    android:numColumns="auto_fit"
    android:columnWidth="100px"
    android:stretchMode="columnWidth"
    android:gravity="center"
/>
```

```
</LinearLayout>
```

activity_img_grid_view.xml

```
<?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"
    android:orientation="vertical"
    tools:context=".imgGridView"
">

<TextView android:id="@+id/tvMsg"
    android:layout_width="match_parent"
    t"
```

```

        android:layout_height="wrap_conte
        nt" android:background="#ff0000ff"
    />
<View
    android:layout_width="match_paren
    t" android:layout_height="3px"
    android:background="#ffffff"
    /> <GridView
    android:id="@+id/gridview2"
    android:layout_width="match_paren
    t"
    android:layout_height="match_pare
    nt" android:numColumns="auto_fit"
    android:verticalSpacing="10dp"
    android:horizontalSpacing="10dp"
    android:columnWidth="90dp"
    android:stretchMode="columnWidth"
    android:gravity="center"
    android:background="#ff777777" />

</LinearLayout>

```

activity_main.xml

```

<?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" android:orientation="vertical"
    tools:context=".MainActivity">

```

```
<TextView
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    "
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:text="Chapter 6"
/>
```

```
<Spinner
    android:id="@+id/spinner"
    android:layout_width="250dp"
    p"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:layout_marginTop="30dp"
/>
```

```
</LinearLayout>
```

customrow.xml

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

```
<ImageView
    android:id="@+id/icon"
```

```
        android:layout_width="40px"
        android:layout_height="20sp
    "
    android:src="@drawable/ok"/
>
```

```
<TextView android:id="@+id/txt6
    "
    android:layout_width="wrap_content
    "
    android:layout_height="wrap_conte
    nt" android:textSize="20sp"/>
```

```
</LinearLayout>
```

solo_pic.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="match_paren t"
    android:layout_height="match_pare
    nt" android:background="#ff005500"
>
```

```

<TextView
    android:id="@+id/tvSoloMs
    g"
    android:layout_width="match_paren
    t"
    android:layout_height="wrap_conte
    nt" android:background="#ff0000ff"
    />
<TextView
    android:layout_width="match_paren t"
    android:layout_height="3px"
    android:background="#ffffff" />
<ImageView
    android:id="@+id/imgSoloPhoto"
    android:layout_width="match_paren
    t"
    android:layout_height="fill_parent"
    android:layout_gravity="center|fill"
    android:layout_weight="2" />
<Button android:text="Bac k"
    android:id="@+id/btnBack"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center_horizontal"
    />

</LinearLayout>

```

textview.xml

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

<TextView

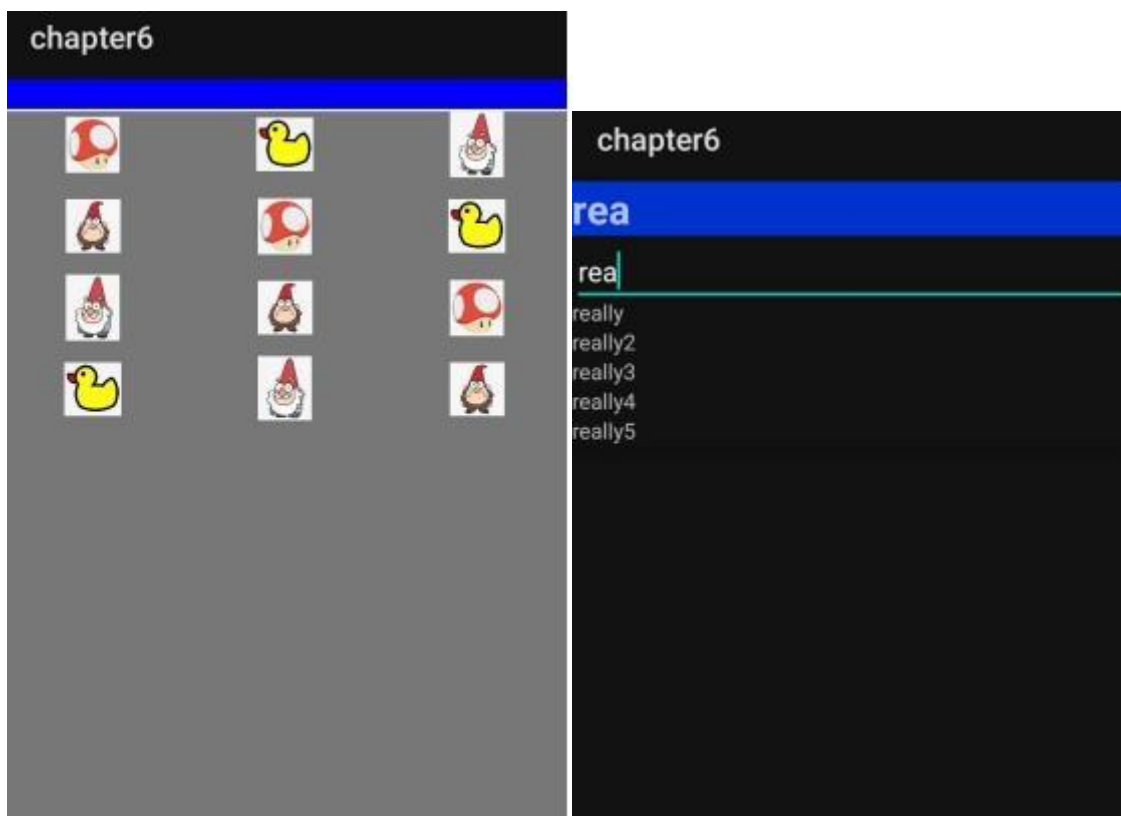
xmlns:android="http://schemas.android.com/apk/res/android"

android:layout_width="match_parent"

android:layout_height="match_parent">

</TextView>

Screenshots:



chapter6

✓ this
✓ is
✓ a
✓ really
✓ really2
✓ really3
✓ really4
✓ really5
✓ silly
✓ list

chapter6

this is a really really2 really3
really4 really5 silly list

chapter6

SDK1.5 /samples/.../view/Gallery1.java

selected option: 6



chapter6

Chapter 6

- Select Option from spinner ▼
- GridView
- AutoCompleteTextView
- gallery widget
- Image based GridView
- Customized Lists

Chapter 7:

Java classes:

`DateTimePickerDialog.java`

```
package com.example.chapter7;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.app.DatePickerDialog;
```

```
import
```

```
android.app.DatePickerDialog.OnDateSetListener
```

```
; import android.app.TimePickerDialog; import
```

```
android.os.Bundle; import android.view.View;
```

```
import android.widget.Button; import
```

```
android.widget.DatePicker; import
```

```
android.widget.TextView; import
```

```
android.widget.TimePicker;
```

```
import java.text.DateFormat;
```

```
import java.util.Calendar;
```

```
public class DateTimePickerDialog extends AppCompatActivity  
{ DateFormat fmtDateAndTime=  
DateFormat.getDateTimeInstance(); TextView  
lblDateAndTime;  
Calendar myCalendar= Calendar.getInstance();  
DatePickerDialog.OnDateSetListener d = new  
OnDateSetListener() { @Override  
    public void onDateSet(DatePicker datePicker, int i, int i1,  
        int i2) { myCalendar.set(Calendar.YEAR, i);  
        myCalendar.set(Calendar.MONTH, i1);  
        myCalendar.set(Calendar.DAY_OF_MONTH, i2);  
        updateLabel();  
    }  
};
```

```
    TimePickerDialog.OnTimeSetListener t = new  
        TimePickerDialog.OnTimeSetListener() { @Override  
        public void onTimeSet(TimePicker timePicker, int i,  
            int i1) { myCalendar.set(Calendar.HOUR_OF_DAY,  
                i); myCalendar.set(Calendar.MINUTE, i1);  
                updateLabel();  
            }  
};
```

```
@Override
```

```
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.activity_datetimepickerdialog);  
    lblDateAndTime= (TextView)  
        findViewById(R.id.lblDateAndTime); Button btnDate=  
        (Button) findViewById(R.id.btnDate);  
        btnDate.setOnClickListener(new  
            View.OnClickListener() { public void onClick(View
```

```

        v) {
            new DatePickerDialog(DateTimePickerDialog.this, d,
                myCalendar.get(Calendar.YEAR),
                myCalendar.get(Calendar.MONTH),
                myCalendar.get(Calendar.DAY_OF_MONTH)).show();
        }
    });

    Button btnTime= (Button)
    findViewById(R.id.btnTime);
    btnTime.setOnClickListener(new
    View.OnClickListener() {
        public void onClick(View v) {
            new
                TimePickerDialog(DateTimePickerDialog.this, t,
                    myCalendar.get(Calendar.HOUR_OF_DAY),
                    myCalendar.get(Calendar.MINUTE),
                    true).show();
        }
    });
    updateLabel();

}

private void updateLabel() {
    lblDateAndTime.setText(fmtDateAndTime.format(myCalendar.getTime()));
}

}

```

DigitalAnalogClock.java

```
package com.example.chapter7;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;
```

```

public class DigitalAnalogClock extends AppCompatActivity {

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

```

Main.java

```

package com.example.chapter7;

import androidx.appcompat.app.AppCompatActivity;

import
android.content.Intent;
import
android.os.Bundle;
import
android.view.View;
import
android.widget.AdapterView;
import
android.widget.AdapterView.OnItemClickListener;
import
android.widget.ArrayAdapter;
import android.widget.Spinner;

public class Main extends AppCompatActivity implements
AdapterView.OnItemClickListener {

    @Override protected void
onCreate(Bundle

```

```
savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.activity_main);  
}
```



```

Spinner spinner1 = findViewById(R.id.spinner1);

String[] items = {"Select Options", "Date&Time Picker Dialog", "Digital&Analog Clock", "Tab widget", "Sliding Drawer"};

ArrayAdapter<String> adp = new
ArrayAdapter<String>(this, R.layout.textview, items);
spinner1.setAdapter(adp); spinner1.setOnItemSelectedListener(this);
}

```

@Override

```

public void onItemSelected(AdapterView<?> adapterView, View view, int i,
long l) { switch ( adapterView.getId()){
    case
        R.id.spinner1:
        { switch(i){
            case 0:{
                break
                ;
            }
            case 1:{
                startActivity(new
                Intent(getApplicationContext(),DateTimePickerDialog.class)); break;
            }
            case 2:{
                startActivity(new
                Intent(getApplicationContext(),DigitalAnalogClock.class)); break;
            }
            case 3:{
                startActivity(new
                Intent(getApplicationContext(),Tab_Widget.class)); break;
            }
            case 4:{
                startActivity(new
                Intent(getApplicationContext(),SlidingDrawer.class)); break;
            }
        }
    }
}
}

```

```

        break;
    }
}

}

@Override
public void onNothingSelected(AdapterView<?> adapterView) {
}

}

```

SlidingDrawer.java

```

package com.example.chapter7;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class SlidingDrawer extends AppCompatActivity {

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

```

Tab_Widget.java

```

package com.example.chapter7;

```

```

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import
android.widget.TabHost;

public class Tab_Widget extends AppCompatActivity {

    @Override protected void
    onCreate(Bundle
        savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_tab_widget);
        TabHost
        tabs=(TabHost)findViewById(R.id.tabhost);
        tabs.setup();
        TabHost.TabSpec spec; spec
        =tabs.newTabSpec("tag1");
        spec.setContent(R.id.tab1);
        spec.setIndicator("1-Clock");
        tabs.addTab(spec);

        spec=tabs.newTabSpec("tag
        2");
        spec.setContent(R.id.tab2);
        spec.setIndicator("2-Login");
        tabs.addTab(spec);
        tabs.setCurrentTab(0);
    }

}

```

XML layouts:

activity_datetimepickerdialog.xml

```
<?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:orientation="vertical" android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".DateTimePickerDialog">

    <TextView android:id="@+id/lblDateAndTime"
        android:layout_width="match_parent"
        android:layout_height="47px"
        android:background="#ff000099"
        android:textStyle="bold">

    </TextView>
    <Button
        android:id="@+id/btnDate"
        android:layout_width="match_
        parent"
        android:layout_height="wrap_c
        ontent" android:text="Set the
        Date">

    </Button>
    <Button android:id="@+id/btnTime"
        android:layout_width="match_parent"
        android:layout_height="wrap_content
        " android:text="Set the Time">

    </Button>

</LinearLayout>
```

activity_digital_analog_clock.xml

```
<?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:orientation="vertical"
    android:layout_height="match_parent"
    tools:context=".DigitalAnalogClock">

    <DigitalClock android:id="@+id/digital"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:background="#ff0000ff"
        android:textSize="20px"
        android:layout_below="@+id/analog"
        android:layout_centerHorizontal="true"
        "
    >

</DigitalClock>
<AnalogClock
    android:id="@+id/analog"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    "
    android:layout_alignParentTop="true"
    "
    android:layout_alignParentLeft="true"
    >

</AnalogClock>

</LinearLayout>
```

activity_main.xml

```
<?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:orientation="vertical"
    android:layout_width="match_parent" android:layout_height="match_parent"
    tools:context=".Main">

    <Spinner android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/spinner1"
        />

</LinearLayout>
```

activity_sliding_drawer.xml

```
<?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=".SlidingDrawer">
    <TextView android:id="@+id/label0"
        android:layout_alignParentTop="true"
        "
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        " android:background="#ffcc3300"
        android:text="SlidingDrawerDemo"
        android:textSize="24sp" />
```

```
<SlidingDrawer
    android:id="@+id/drawer"
    android:layout_alignParentBottom="true"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:handle="@+id/handle"
    android:content="@+id/content" >
<ImageView android:id="@+id/handle"
    android:layout_width="40sp"
    android:layout_height="40sp"
    android:src="@drawable/tray_handle_normal" />
<LinearLayout android:id="@+id/content"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical" >
<TextView
    android:id="@+id/label1"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:background="#ff006666"
    android:text="Line 1"
    android:textSize="22sp"
/>
<TextView android:id="@+id/label2"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:background="#ff669900"
    android:text="Line 2"
    android:textSize="22sp"
/>
<TextView android:id="@+id/label3"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:background="#ff0000cc"
    android:text="Line 3"
    android:textSize="22sp"
```

```

        />
<TextView android:id="@+id/filler1"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content" android:textSize="6sp" />
<Button android:id="@+id/btn1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content" android:padding="4px"
    android:text=" btn1 -time? " />
<Button android:id="@+id/btn2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content" android:padding="4px"
    android:text=" btn2 -close " />
</LinearLayout>
</SlidingDrawer>

</RelativeLayout>

activity_tab_widget.xml

<?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:orientation="vertical"
    android:layout_height="match_parent" tools:context=".Tab_Widget">

    <TabHost

```



```

        android:id="@+id/tabhost"
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <TabWidget android:id="@android:id/tabs"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"/>
        <FrameLayout android:id="@android:id/tabcontent"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:paddingTop="62px">
            <!--PUT HERE FrameLayout1 --><!--PUT HERE FrameLayout2 -->
            <FrameLayout android:id="@+id/tab1"
                android:layout_width="match_parent"
                android:layout_height="match_paren
                t">
                <include layout="@layout/tab1"

                />

            </FrameLayout>

            <FrameLayout android:id="@+id/tab2"
                android:layout_width="match_parent"
                android:layout_height="match_paren
                t"> <include layout="@layout/tab2" />
            </FrameLayout>

        </FrameLayout>

    </TabHost>

```

```
</LinearLayout>
```

tab1.xml

```
<?xml version="1.0" encoding="utf-8"?>
<AnalogClock xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent" android:layout_height="match_parent"
    android:id="@+id/tab1"
    >

</AnalogClock>
```

tab2.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical" android:id="@+id/tab2"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <TextView android:id="@+id/caption1"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:background="#ff0000ff"
        android:text="Person Name"
        android:textSize="20px">

    </TextView>

    <EditText android:id="@+id/txtPerson"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="txtPerson" android:textSize="18sp">
```

```
</EditText>
```

```
<Button android:id="@+id/btnGo"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:text="Go">
```

```
</Button>
```

```
</LinearLayout>
```

textview.xml

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

```
<TextView xmlns:android="http://schemas.android.com/apk/res/android"  
    android:layout_width="match_parent" android:layout_height="match_parent">
```

```
</TextView>
```

Screenshots:

chapter7

1-CLOCK

2-LOGIN



chapter7

19:47



chapter7

Nov 19, 2021 19:47:16

SET THE DATE

SET THE TIME

19:47



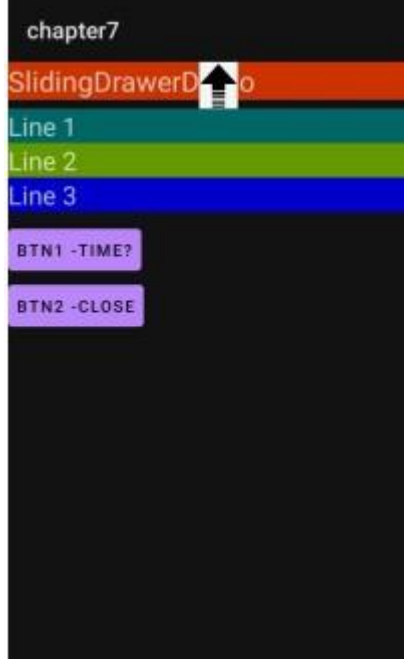
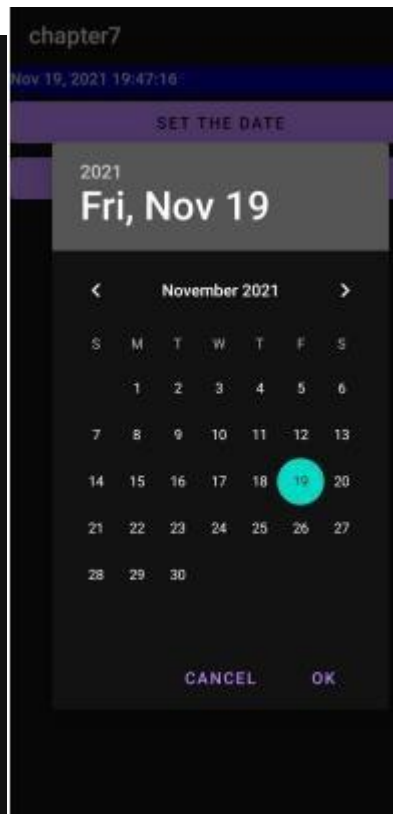
CANCEL

OK

chapter7

SlidingDrawerDemo





Chapter 8

Java classes:

MainActivity.java package com.example.chapter8;

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.graphics.Color;
```

```
import android.os.Bundle; import
```

```
android.text.Html; import
```

```
android.text.Spanned; import
```

```
android.view.ContextMenu;
```

```
import android.view.Menu; import
```

```
android.view.MenuItem; import
```

```
android.view.SubMenu; import
```

```
android.view.View; import
```

```
android.widget.EditText;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    EditText etMessage1, etMessage2; Integer[]
```

```
    arrayPointSize = {10,20,30,40,50}; @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main); etMessage1 =
```

```
        findViewById(R.id.etMessage1); etMessage2 =
```

```
        findViewById(R.id.etMessage2);
```

```
        registerForContextMenu(etMessage1);
```

```
        registerForContextMenu(etMessage2);
```

```
    }
```

```
    @Override
```

```
    public boolean onCreateOptionsMenu(Menu menu) {
```

```
// only one Option menu per activity
```

```
    populateMyFirstMenu(menu); return
```

```
    super.onCreateOptionsMenu(menu);
```

```
    }
```

```
    @Override
```

```
    public boolean onPrepareOptionsMenu(Menu menu){
```

```

        //populateMyFirstMenu(menu); return
        super.onPrepareOptionsMenu(menu);

    }

    private void populateMyFirstMenu(Menu menu){ int
        groupId = 0;
        //arguments: groupId, optionId, order, title

        MenuItem item1 =menu.add(groupId, 1, 1, "10 points");
        MenuItem item2 =menu.add(groupId, 2, 2, "20 points");
        MenuItem item3 =menu.add(groupId, 3, 3, "30 points");
        MenuItem item4 =menu.add(groupId, 4, 4, "40 points");

        //menu.add(groupId, 5, 5, "50 points");
        menu.add(groupId, 6, 8, "Red text");

        menu.add(groupId, 7, 7, "Green Text");
        menu.add(groupId, 8, 6, "Blue text");

        item1.setIcon(R.drawable.france);
        item2.setIcon(R.drawable.german
            y); item3.setIcon(R.drawable.uk);
        item4.setIcon(R.drawable.us);

        item1.setShortcut('1','1');
        item2.setShortcut('2','2');
        item3.setShortcut('3','3');
        item4.setShortcut('4','4');

        int smGroupId = 0; // don't care, same as Menu.NONE int
        smItemId = 5; // fifth element int smOrder = 5; // don't
        care, same as Menu.NONE

        SubMenu subMenu =
        menu.addSubMenu(smGroupId,smItemId,smOrder,"Sub menu");
        subMenu.setHeaderIcon(R.drawable.uk); subMenu.setIcon(R.drawable.us);

        MenuItem sub51 = subMenu.add(smGroupId,5,1,"sub-menu 5-1");
        MenuItem sub52 = subMenu.add(smGroupId,5,2,"sub-menu 5-2"); MenuItem
        sub53 = subMenu.add(smGroupId,5,3,"sub-menu 5-3");

    }

```



```

public void onCreateContextMenu(ContextMenu menu, View v,
                                ContextMenu.ContextMenuInfo menuInfo) {
    super.onCreateContextMenu(menu, v, menuInfo);

    if (v.getId() == etMessage1.getId())
        // create a menu for etMessage1 box
        populateMyFirstMenu(menu);
        if (v.getId() == etMessage2.getId()){
            // create a menu for etMessage2 box
            populateMySecondMenu(menu);
        }
    }

    private void populateMySecondMenu(Menu menu){ int
        groupId = 0;
//arguments: groupId, optionId, order, title
        menu.add(groupId, 9, 1, "Bold");
        menu.add(groupId, 10, 2, "Italic");
        menu.add(groupId, 11, 3, "Normal");

    }

    @Override
    public boolean onContextItemSelected(MenuItem item) {
        return(applyMenuOption(item) ||
            super.onContextItemSelected(item) );
    }

    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        return(applyMenuOption(item) ||
            super.onOptionsItemSelected(item) );
    }

    private boolean applyMenuOption(MenuItem item){ int
        menuItemId = item.getItemId(); // 1, 2, 3, ...11 String
        strMsg2 = etMessage2.getText().toString(); if
        (menuItemId < 5) {

```

```

// first five option are for setting text size int newPointSize
    = arrayPointSize[menuItemId - 1];
    etMessage1.setTextSize(newPointSize);
    etMessage2.setTextSize(newPointSize);
}
else if (menuItemId == 5) {

    etMessage1.setText(
        "You have selected: \n" + item.getTitle()
        + "\nId: " + menuItemId
        + " order: " + item.getOrder());
}

else {
// either change color on box text1 or style on text2 if
    (menuItemId == 6)
        etMessage1.setTextColor(Color.RED);
//etMessage1.setTextColor(0xffff0000); // red else
    if (menuItemId == 7)

        etMessage1.setTextColor(0xff00ff00); // green
    else if (menuItemId == 8)
        etMessage1.setTextColor(0xff0000ff); // blue
    else if (menuItemId == 9)
        etMessage2.setText(beautify(strMsg2, "BOLD")); //bold
    else if (menuItemId == 10)
        etMessage2.setText(beautify(strMsg2, "ITALIC")); //italic
    else if (menuItemId == 11) etMessage2.setText(beautify(strMsg2,
        "NORMAL")); //normal
}

return false;
}

private Spanned beautify (String originalText, String
    selectedStyle){ Spanned answer = null; if

```

```

        (selectedStyle.equals("BOLD")) answer = Html.fromHtml("<b>" +
originalText + "</b>"); else
    if (selectedStyle.equals("ITALIC"))
        answer = Html.fromHtml("<i>" + originalText + "</i>"); else
    if (selectedStyle.equals("NORMAL"))
        answer = Html.fromHtml("<normal>" + originalText + "</normal>"); return
    answer;
}
}

```

XML layouts:

activity_main.xml

```

<?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:orientation="vertical"
    android:layout_width="match_parent" android:layout_height="match_parent"
    tools:context=".MainActivity">

    <EditText android:id="@+id/etMessage1"
        android:text="Hello                world"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin = "5dp" />

    <EditText android:id="@+id/etMessage2"
        android:text="Hola                mundo"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin = "5dp" />

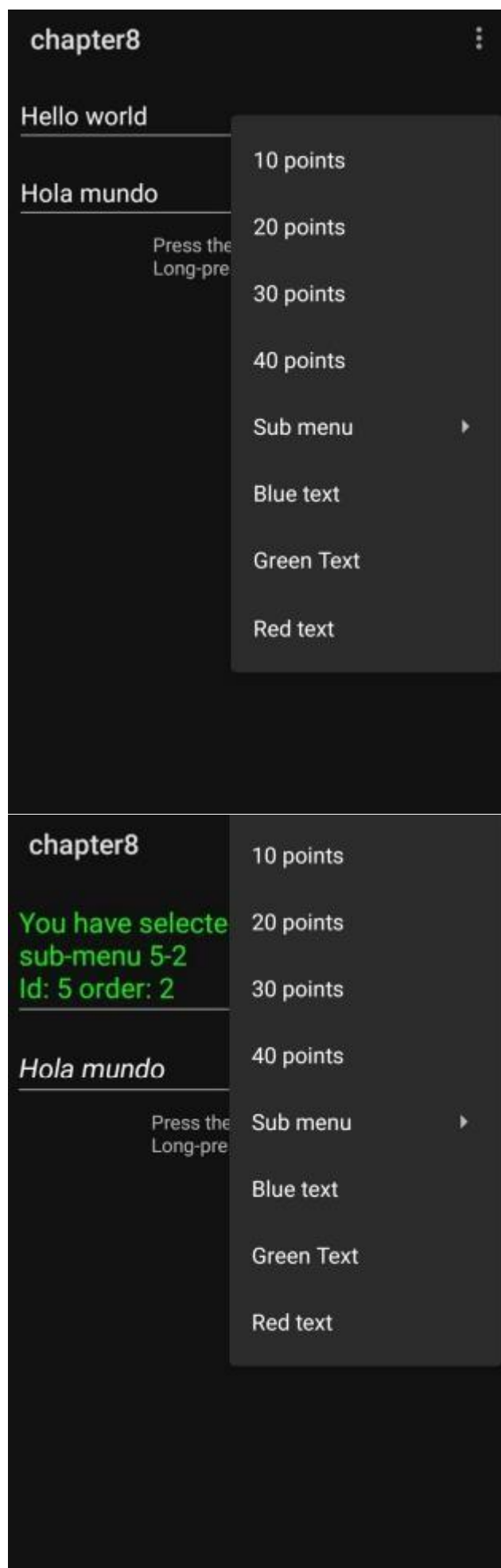
    <TextView android:text="Press the MENU key, or \nLong-press
        text-boxes" android:layout_width="wrap_content"

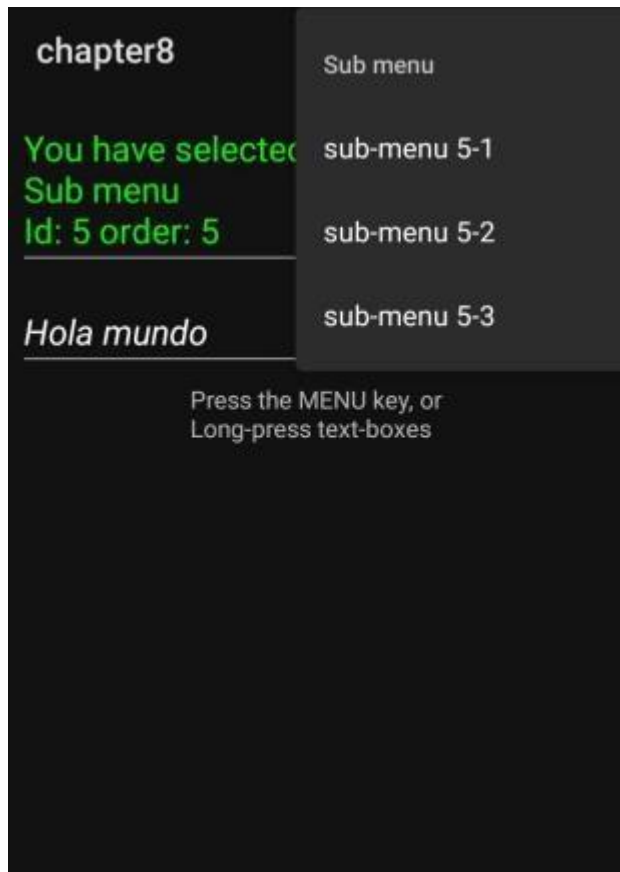
```

```
android:layout_height="wrap_content"  
android:layout_gravity="center" />
```

```
</LinearLayout>
```

Screenshots:





Chapter 9

Java classes:

MainActivity.java

```
package com.example.chapter9;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.graphics.Typeface;
```

```
import android.os.Bundle;
```

```
import android.widget.TextView;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    @Override
```

```
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.activity_main);  
    TextView textView = findViewById(R.id.custom);  
    Typeface typeface = Typeface.createFromAsset(getAssets(),"fonts/mvboli.ttf");  
    textView.setTypeface(typeface);  
}  
}
```

Xml layouts:

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<TableLayout 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"
    android:orientation="vertical" android:stretchColumns="1"
    tools:context=".MainActivity">

    <TableRow android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:id="@+id/row1">
        <TextView android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:background="#ff006666"
            android:layout_marginRight="24px"
            android:text="sans:" android:textSize="20sp"
            />
        <TextView android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Hello, world!"
            android:textSize="20sp"
            android:typeface="sans"
            />
    </TableRow>

    <TableRow android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:id="@+id/row2">
        <TextView android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:background="#ff006666"
            android:layout_marginRight="24px"
            android:text="sans:" android:textSize="20sp"
```



```
        />
    <TextView android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello, world!"
        android:textSize="20sp"
        android:typeface="serif"
    />
</TableRow>
<TableRow android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:id="@+id/row3">
    <TextView android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:background="#ff006666"
        android:layout_marginRight="24px"
        android:text="sans:" android:textSize="20sp"
    />

    <TextView android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello, world!"
        android:textSize="20sp"
        android:typeface="monospace"
    />
</TableRow>

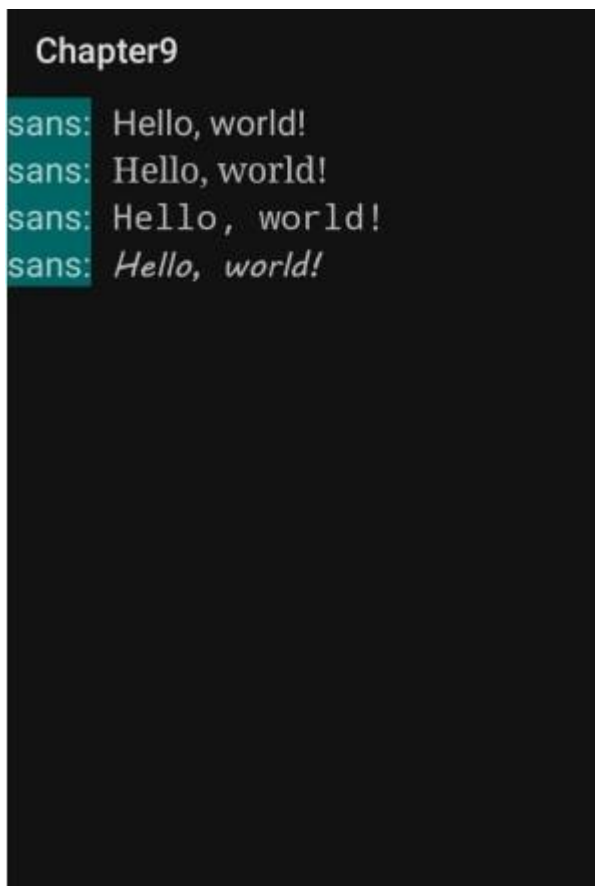
<TableRow android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:id="@+id/row4">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:background="#ff006666"
        android:layout_marginRight="24px"
        android:text="sans:" android:textSize="20sp"
    />
```

```
<TextView android:id="@+id/custom"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Hello, world!"
    android:textSize="20sp"

/>
</TableRow>
```

```
</TableLayout>
```

Screenshots:



Chapter 10:

Java classes:

MainActivity.java

```
package com.example.chapter10;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.content.Intent; import
```

```
android.os.Bundle; import
```

```
android.view.View; import
```

```
android.webkit.WebView; import
```

```
android.webkit.WebViewClient;
```

```
import android.widget.Button;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    @Override
```

```

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

    Intent i = new Intent(this,webview.class); Button
    b1=null,b2=null; b1 = findViewById(R.id.b1); b2 =
    findViewById(R.id.b2); b1.setOnClickListener(new
    View.OnClickListener() {
        @Override public void
        onClick(View view) {
            //
            i.putExtra("website",0); startActivity(i);
        }
    });

    b2.setOnClickListener(new View.OnClickListener() {
        @Override public void
        onClick(View view) {
            // i.putExtra("website",1);
            startActivity(i);
        }
    });

}
}

```

webview.java

```
package com.example.chapter10;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```

import android.os.Bundle; import
android.webkit.WebView;
import android.webkit.WebViewClient;

public class webview extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_webview); WebView
        webView = findViewById(R.id.webview1);

        webView.getSettings().setJavaScriptEnabled(true);
        webView.getSettings().setDomStorageEnabled(true);
        Bundle b= getIntent().getExtras();
        switch(b.getInt("website")){
            case 0:{ webView.loadUrl("https://facebook.com");
                webView.setWebViewClient(new WebViewClient() {
                    @Override public boolean shouldOverrideUrlLoading(WebView
                    view, String url){
                        // do your handling codes here, which url is the requested url
                        // probably you need to open that url rather than redirect:
                        view.loadUrl(url);
                        return false; // then it is not handled by default action
                    }
                })
            }
            @Override
            public void onPageFinished(WebView view, String url) {
                // do your stuff here
                super.onPageFinished(view, url);
                webView.loadUrl("javascript: var
x=document.getElementById('m_login_email').value='user123';");
                webView.loadUrl("javascript: var
y=document.getElementById('m_login_password').value='password123';");
            }
        }
    }
}

```

```

        });

        break;
    }

    case 1:{

webView.loadUrl("https://www.google.com/maps/@32.46608775788683,74.51402883432716,17z"); webView.setWebViewClient(new
    WebViewClient() {
        @Override
        public boolean shouldOverrideUrlLoading(Webview view, String url){
            // do your handling codes here, which url is the requested url

            // probably you need to open that url rather than redirect:
            view.loadUrl(url);

            return false; // then it is not handled by default action
        }

    });

    break;
}
}
}
}
}
}
}

```

XML layouts:

activity_main.xml

```

<?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"
    android:orientation="vertical" tools:context=".MainActivity">

```

```
<Button android:id="@+id/b1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:textSize="20sp"
    android:text="Facebook"
/>

<Button android:id="@+id/b2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:textSize="20sp"
    android:text="google map"
/>
```

</LinearLayout>

activity_webview.xml


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

<WebView 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:id="@+id/webview1"
    android:layout_width="match_parent" android:layout_height="match_parent"
    android:orientation="vertical" tools:context=".webview">
```

</WebView>

Screenshots:

chapter10

 Get Facebook for Android and browse faster.

facebook

user123

.....

Log In

Forgotten password?

or

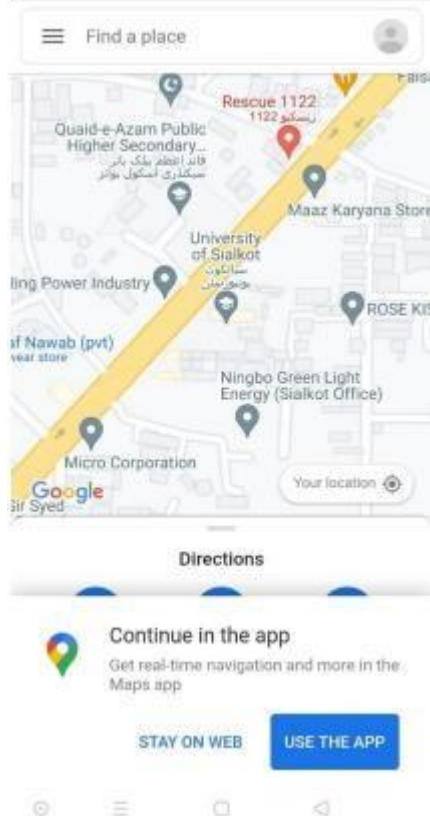
Create New Account

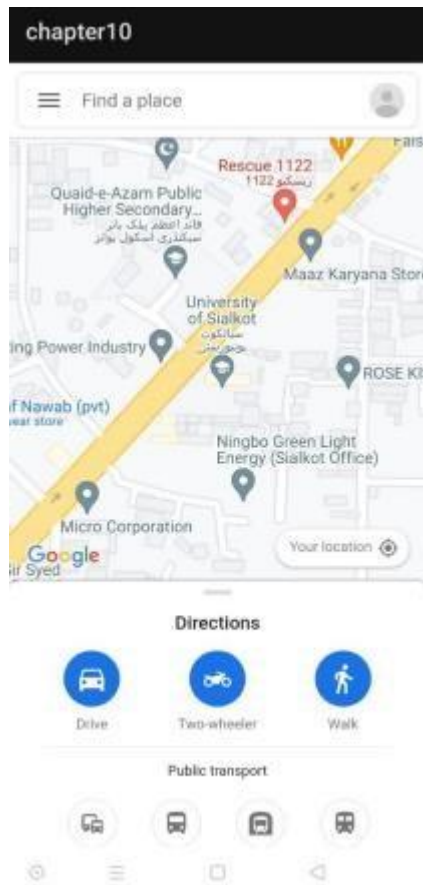
chapter10

FACEBOOK

GOOGLE MAP

chapter10





Chapter 11

Java classes:

customtoast.java

package com.example.chapter11;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle; import
 android.view.Gravity; import
 android.view.View; import
 android.widget.Button; import
 android.widget.EditText; import
 android.widget.Toast;

public class customtoast extends AppCompatActivity {
 EditText xBox; EditText yBox;

```
Button btn1; @Override protected void onCreate(Bundle  
savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.activity_customtoast); xBox =  
        (EditText)findViewById(R.id.xBox); yBox  
        = (EditText)findViewById(R.id.yBox);
```

```

btn1 = (Button)findViewById(R.id.btn1);
btn1.setOnClickListener(new View.OnClickListener() {
    @Override public void
    onClick(View v) { try {
        Toast myToast = Toast.makeText(
            getApplicationContext(), "Saludos
            amigos \n Hasta la vista",
            Toast.LENGTH_LONG);
        myToast.setGravity(Gravity.CENTER,
            Integer.valueOf(xBox.getText().toString()),
            Integer.valueOf(yBox.getText().toString()) );
        myToast.show();

    } catch (NumberFormatException e) {
        Toast.makeText(getApplicationContext(),
            e.getMessage(),
            Toast.LENGTH_LONG).show();
    }
    } // onClick
}); // listener
}
}

```

MainActivity.java

```
package com.example.chapter11;
```

```
import androidx.appcompat.app.AlertDialog;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.content.DialogInterface;
```

```
import android.content.Intent; import
```

```
android.os.Bundle; import
```

```
android.view.View; import
```

```
android.widget.Button; import
```

```
android.widget.EditText; import
android.widget.Toast;
```

```
public class MainActivity extends AppCompatActivity {
    Button btnGo;
    EditText txtMsg;
    String msg;
    Button b2; @Override protected void onCreate(Bundle
savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main); txtMsg =
    findViewById(R.id.txtMsg); btnGo =
    findViewById(R.id.btnGo);
    btnGo.setOnClickListener(new View.OnClickListener()
    {
        @Override
        public void onClick(View view) { AlertDialog
            dialBox = createDialogBox();
            dialBox.show(); txtMsg.setText("I
            am here! ");
        }
    });

    b2 = findViewById(R.id.b2); b2.setOnClickListener(new
    View.OnClickListener() {
        String msg2 = "Hello! how are you doing today?";
        @Override
        public void onClick(View view) {

            Toast.makeText(getApplicationContext(),msg2,Toast.LENGTH_LONG).show();

        }

    });

    Button btnToast = findViewById(R.id.btnToast);
    btnToast.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
```

```

        startActivity(new Intent(getApplicationContext(),customtoast.class));

    }

});

}

private AlertDialog createDialogBox() {
    AlertDialog myQuittingDialogBox = new
        AlertDialog.Builder(this)
//set message, title, and icon
        .setTitle("Terminator")
        .setMessage("Are you sure that you want to quit?")
        //setIcon(R.drawable.ic_menu_end_conversation) //set
three option buttons
        .setPositiveButton("Yes", new DialogInterface.OnClickListener() {
            public void onClick(DialogInterface dialog, int whichButton) {
                msg = "YES " + Integer.toString(whichButton);
                txtMsg.setText(msg);
            }
        })//setPositiveButton
        .setNeutralButton("Cancel",new DialogInterface.OnClickListener() {
            public void onClick(DialogInterface dialog, int whichButton) { //whatever should be
done when answering "CANCEL" goes here msg = "CANCEL " +
Integer.toString(whichButton); txtMsg.setText(msg);
            }//OnClick
        })//setNeutralButton
        .setNegativeButton("NO", new DialogInterface.OnClickListener() {
            public void onClick(DialogInterface dialog, int whichButton) { //whatever should
be done when answering "NO" goes here msg = "NO " +
Integer.toString(whichButton); txtMsg.setText(msg);
            }
        })//setNegativeButton

        .create();

    return myQuittingDialogBox;
}

```

```
}  
}
```

XML layouts:

activity_customtoast.xml

```
<?xml version="1.0" encoding="utf-8"?>  
  
<TableLayout 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:id="@+id/myTableLayout" android:layout_width="match_parent"  
    android:layout_height="match_parent" android:background="#ff0000ff"  
    android:orientation="vertical" android:stretchColumns="1,2"  
  
    tools:context=".customtoast">  
  
    <TableRow  
        android:layout_height="match_parent"  
        android:layout_width="match_parent"  
        android:orientation="horizontal"  
        >  
  
        <TextView  
            android:id="@+id/myCaption"  
            android:layout_width="match_parent"  
            "  
            android:layout_height="wrap_conten  
            t" android:background="#ff009999"  
            android:text="Testing Toast -  
            Gravity.CENTER 320x480 pixels"  
            android:gravity="center"  
            android:layout_span="2"  
  
        />
```

```
</TableRow>
<TableRow android:id="@+id/myRow1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    " android:background="#ff0000ff"
    android:padding="10px"
    android:orientation="horizontal"
    >
    <TextView android:id="@+id/xLabel"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="X offset: " android:textSize="18sp"
    />
    <EditText android:id="@+id/xBox"
        android:layout_height="wrap_content"
        t"
        android:layout_width="wrap_content"
        android:textSize="18sp"
        android:text="0"
    />
```

```
</TableRow>
<TableRow android:id="@+id/myRow2"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    " android:background="#ff0000ff"
    android:padding="10px"
    android:orientation="horizontal"
    >
    <TextView android:id="@+id/yLabel"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Y offset: " android:textSize="18sp"
    />
    <EditText android:id="@+id/yBox"
        android:layout_height="wrap_content"
```



```

        android:layout_width="wrap_content"
        android:textSize="18sp" android:text="0"
    />
</TableRow>
<TableRow android:id="@+id/myRow3"
    android:layout_width="match_parent"
    android:layout_height="match_paren
t" android:background="#ff0000ff"
    android:padding="10px"
    android:orientation="horizontal"
>
    <Button                android:id="@+id/btn1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="
        Show Toast " android:layout_span="2"
    >
</Button>

```

```

</TableRow>

```

```

</TableLayout>

```

activity_main.xml

```

<?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:orientation="horizontal"
    android:layout_height="match_parent" tools:context=".MainActivity">

    <Button android:text="GO"
        android:id="@+id/btnGo"

```

```
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        ">
</Button>
```

```
<EditText
    android:hint="click the go button"
    android:id="@+id/txtMsg"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_toRightOf="@+id/btnGo"
    ">
</EditText>
<Button android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/b2" android:text="show toast
    message"
```

```
        android:layout_marginTop="50dp" android:layout_gravity="left"

        />
    <Button android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Customized toast"
        android:id="@+id/btnToast" android:layout_below="@id/b2"
        android:layout_marginTop="100sp"
        />

</RelativeLayout>
```

Screenshots:



