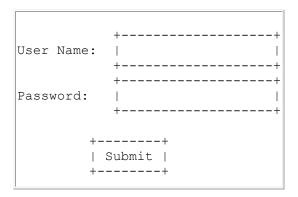
Manisha Vyas

Question.

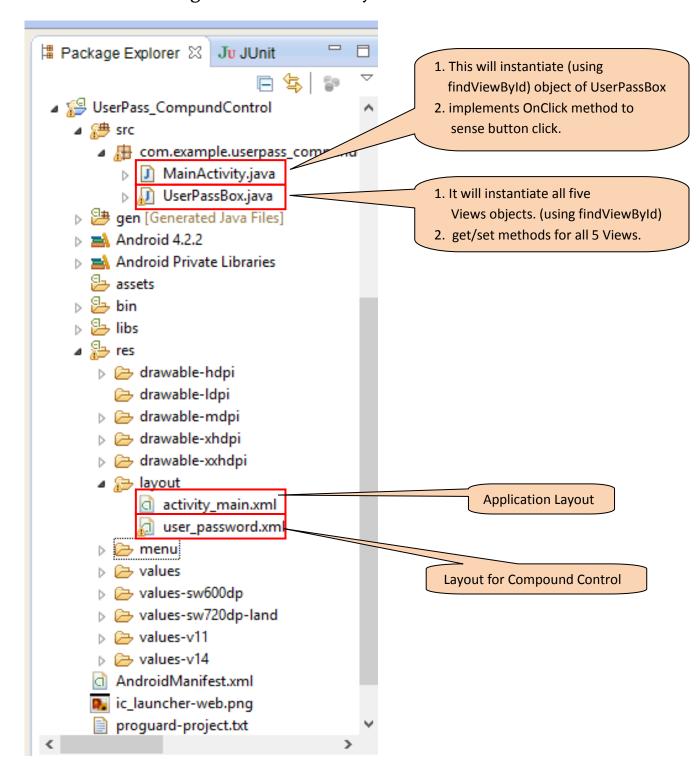
Creating Compound Controls

Creating the following <u>Compound Controls</u>

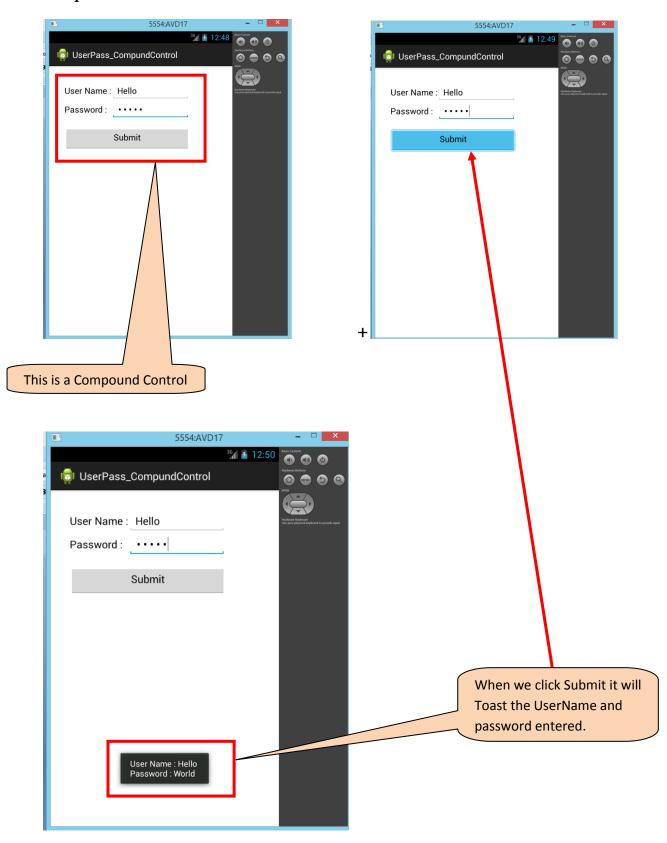


After entering the user name and the password, pressing the button Submit to activate a Toast to display the entered user name and password.

We will be working with 4 files mainly...

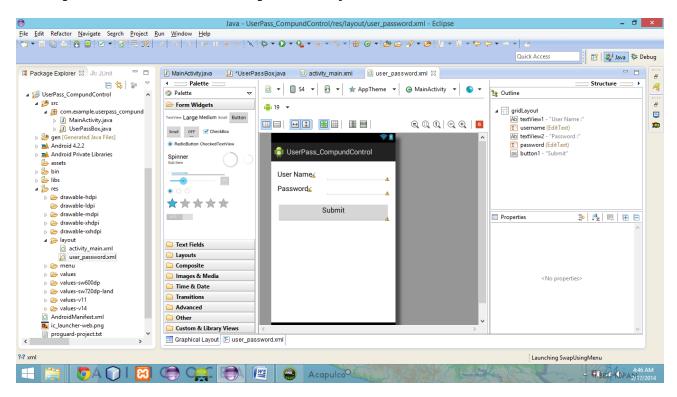


SnapShots::



Step:1 Create new Layout file user_password.xml

user_password.xml --> Graphical Layout



user_password.xml

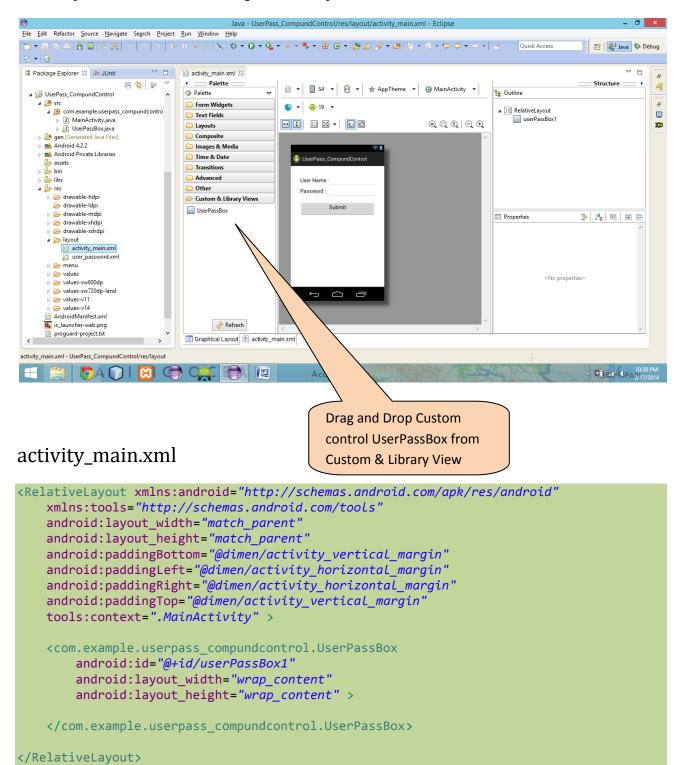
We have used GridLayout so we will be Extending GridLayout in UserPassBox.java

```
<?xml version="1.0" encoding="utf-8"?>
<GridLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity vertical margin"
    tools:context=".MainActivity"
        android:id="@+id/gridLayout"
        android:columnCount="3"
        android:rowCount="3">
        <TextView
            android:id="@+id/textView1"
            android:layout width="wrap content"
            android:layout_height="wrap_content"
            android:layout column="0"
```

```
android:layout_gravity="left"
        android:lavout row="0"
        android:text="User Name :"
        android:textAppearance="?android:attr/textAppearanceMedium" />
    <EditText
        android:id="@+id/username"
        android:layout_width="164dp"
        android:layout_height="wrap_content"
        android:layout column="1"
        android:layout columnSpan="2"
        android:layout_row="0"
        android:ems="10" />
    <TextView
        android:id="@+id/textView2"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:layout_column="0"
        android:layout_gravity="left"
        android:layout row="1"
        android:text="Password :"
        android:textAppearance="?android:attr/textAppearanceMedium" />
    <EditText
        android:id="@+id/password"
        android:layout_width="164dp"
        android:layout_height="wrap_content"
        android:layout_column="1"
        android:layout_columnSpan="2"
        android:layout_row="1"
        android:ems="10"
        android:inputType="textPassword" />
    <Button
        android:id="@+id/button1"
        android:layout width="match parent"
        android:layout_height="wrap_content"
        android:layout_column="0"
        android:layout_columnSpan="2"
        android:layout_gravity="left"
        android:layout marginTop="18dp"
        android:layout row="2"
        android:gravity="center_horizontal"
        android:text="Submit" />
</GridLayout>
```

Step:2 Modify acitivity_mail.xml

activity_main.xml --> Graphical Layout



Step:3 Create UserPassBox.java under scr folder which extends Layout

UserPassBox.java

(This is java class for Compound Control user_password.xml)

```
package com.example.userpass compundcontrol;
import android.content.Context;
import android.util.AttributeSet;
                                                      Extend type of Layout we used
import android.view.LayoutInflater;
                                                      to create user password.xml
import android.widget.*;
public class UserPassBox extends GridLayout {
      private TextView textview1,textview2;
      private EditText userName,password;;
      private Button submit;
      public UserPassBox(Context context) {
             super(context);
             loadViews();
      public UserPassBox(Context context, AttributeSet attrs) {
             super(context, attrs);
             LayoutInflater inflater = LayoutInflater.from(context);
             inflater.inflate(R.layout.user_password, this);
             loadViews();
      public EditText getUserName() {
             return userName;
      public EditText getPassword() {
             return password;
      public Button getSubmit() {
             return submit;
      public void setUserName(EditText userName) {
             this.userName = userName;
                                                                        Instantiate all 5 views we
      public void setPassword(EditText password) {
                                                                        used in user password.xml
             this.password = password;
      private void loadViews() {
             textview1 = (TextView) findViewById(R.id.textView1);
             textview2 = (TextView) findViewById(R.id.textView2);
             userName = (EditText) findViewById(R.id.username);
             password = (EditText) findViewById(R.id.password);
             submit = (Button) findViewById(R.id.button1);
      }
```

Step: 4 Modify MainActivity.java

MainActivity.java

```
package com.example.userpass_compundcontrol;
import android.os.Bundle;
import android.app.Activity;
import android.view.*;
import android.view.View.OnClickListener;
import android.widget.Toast;
                                                             instantiate (using findViewById)
public class MainActivity extends Activity {
                                                             Compound Control and set the
                                                             listener for it.
      UserPassBox userbox;
      String userName, password;
      @Override
      protected void onCreate(Bundle savedInstanceState) {
             super.onCreate(savedInstanceState);
             setContentView(R.layout.activity main);
             userbox = (UserPassBox)findViewById(R.id.userPassBox1);
             userbox.getSubmit().setOnClickListener( new OnClickListener() {
       @Override
      public void onClick(View v) {
             userName =userbox.getUserName().getText().toString();
             password =userbox.getPassword().getText().toString();
             Toast.makeText(MainActivity.this, "User Name : "+ userName+"\nPassword :"
                             +password, Toast.LENGTH LONG).show();
       });
```

OnClick() method Listens for Submit button click and gets the user inputs and Toast it on the screen.