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Lab 4

List Application

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**JAVA CODE:**

**CustomListAdapter.java**

*<?***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="org.example.lab4.MainActivity"**>  
  
<**ListView  
 android:id="@+id/citylist"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_alignParentTop="true"  
 android:background="@android:color/transparent"  
 android:cacheColorHint="@android:color/transparent"  
 android:fastScrollEnabled="true"  
 android:persistentDrawingCache="scrolling"  
 android:scrollingCache="false"**/>  
</**RelativeLayout**>

**MainActivity.java**

**package** org.example.lab4;  
  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.AdapterView;  
**import** android.widget.ListAdapter;  
**import** android.widget.ListView;  
**import** android.widget.Toast;  
  
  
**public class** MainActivity **extends** AppCompatActivity {  
 String **ListItemsName**[] = **new** String[]{ **"Barcelona"**, **"Udaipur"**,  
 **"Siem Reap"**,**"Rome"**,**"Santa Fe"**,**"Luang Prabang"**,**"Ubud"**,**"Cape Town"**, **"Hoi An"**,**"Oaxaca"**,  
 **"Florence"**,**"Kyoto"**,**"Chiang Mai"**,**"Charleston"**,**"San Miguel de Allende"**};  
 Integer **ImageName**[] = { R.drawable.***barcelona***, R.drawable.***udaipur***,  
 R.drawable.***siemreap***,R.drawable.***rome***,R.drawable.***santafe***,R.drawable.***luangprabang***,R.drawable.***lowerubud***,  
 R.drawable.***capetown***,R.drawable.***hoian***, R.drawable.***oaxaca***,R.drawable.***florence***,R.drawable.***kyoto***,R.drawable.***chiangmai***,  
 R.drawable.***charleston***,R.drawable.***sanmiguel***};  
 String **ListItemsInfo**[]=**new** String[]{**"Barcelona is located in Spain"**,**"Udaipur is located in India"**,**"Siem Reap is located in Cambodia"**,**"Rome is located in Italy"**,**"Santa Fe is located in New Mexico"**,  
 **"Luang Prabang is located in Laos"**,**"Ubud is located in Indonesia"**,**"Cape Town is located in South Africa"**,**"Hoi An is located in Vietnam"**, **"Oaxaca is located in Mexico"**,  
 **"Florence is located in Italy"**,**"Kyoto is located in Japan"**, **"Chiang Mai is located in Thailand"**, **"Charleston is located in South Carolina"**,  
 **"San Miguel de Allend is located in Mexico"**};  
 ListView **listView**;  
 ListAdapter **listAdapter**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **listView** = (ListView)findViewById(R.id.***citylist***);  
 **listAdapter** = **new** CustomListAdapter(MainActivity.**this**,  
 **ListItemsName**, **ImageName**, **ListItemsInfo**);  
 **listView**.setAdapter(**listAdapter**);  
 **listView**.setOnItemClickListener(**new** AdapterView.OnItemClickListener() {  
  
 @Override  
 **public void** onItemClick(AdapterView<?> parent, View view,  
 **int** position, **long** id) {  
 Toast.*makeText*(getApplicationContext(),  
 **ListItemsName**[position],  
 Toast.***LENGTH\_LONG***).show();  
 }  
 });  
 }  
}

**XML FILES**

**Customlayout.XML**

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"** >  
  
 <**ImageView  
 android:id="@+id/cityicon"  
 android:layout\_width="70dp"  
 android:layout\_height="70dp"  
 android:layout\_alignParentLeft="true"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:src="@drawable/abc\_btn\_check\_material"** />  
  
 <**TextView  
 android:id="@+id/cityname"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="40dp"  
 android:layout\_alignParentTop="true"  
 android:layout\_toEndOf="@+id/cityicon"  
 android:layout\_toRightOf="@+id/cityicon"  
 android:text="Large Text"  
 android:textAppearance="?android:attr/textAppearanceLarge"** />  
  
 <**TextView  
 android:id="@+id/cityinfo"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="20dp"  
 android:layout\_below="@+id/cityname"  
 android:layout\_toEndOf="@+id/cityicon"  
 android:layout\_toRightOf="@+id/cityicon"  
 android:text="TextView"  
 android:textColor="@android:color/black"** />  
</**RelativeLayout**>

**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:layout\_height="match\_parent"  
tools:context="org.example.lab4.MainActivity"**>  
  
<**ListView  
 android:id="@+id/citylist"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_alignParentTop="true"  
 android:background="@android:color/transparent"  
 android:cacheColorHint="@android:color/transparent"  
 android:fastScrollEnabled="true"  
 android:persistentDrawingCache="scrolling"  
 android:scrollingCache="false"**/>  
</**RelativeLayout**>

**IMAGES**

