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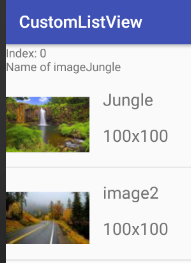
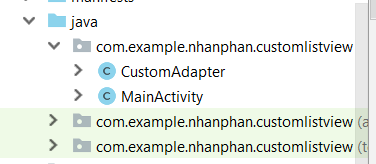
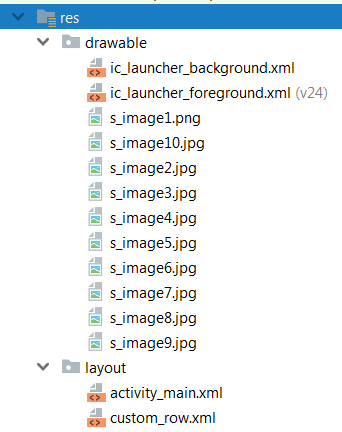
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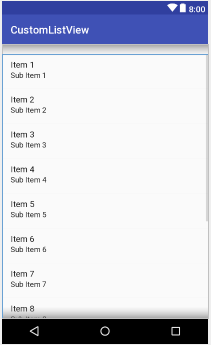
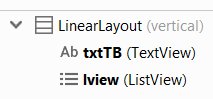
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1. **CustomListView**
2. **GUI**

1. **Hiển thị**
2. **activity\_main.xml**

* **GUI**

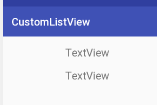
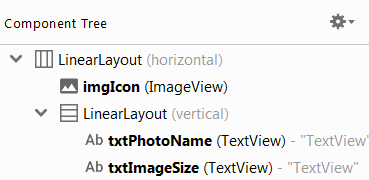
 

* **Code**

|  |
| --- |
| *<?***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"  tools:layout\_editor\_absoluteY="81dp"**>  <**TextView  android:id="@+id/txtTB"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text=""  tools:layout\_editor\_absoluteX="154dp"  tools:layout\_editor\_absoluteY="246dp"** />  <**ListView  android:id="@+id/lview"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"** /> </**LinearLayout**> |

1. **custom\_row.xml**

* **GUI**

* **Code**

|  |
| --- |
| *<?***xml version="1.0" encoding="utf-8"***?>* <**LinearLayout  xmlns:android="http://schemas.android.com/apk/res/android" android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  android:orientation="horizontal"**>  <**ImageView  android:layout\_marginTop="10dp"  android:layout\_width="100dp"  android:layout\_height="100dp"  android:id="@+id/imgIcon"**/>  <**LinearLayout  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_margin="16dp"  android:orientation="vertical"**>  <**TextView  android:id="@+id/txtPhotoName"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_weight="1"  android:textSize="20dp"  android:layout\_marginBottom="16dp"  android:text="TextView"** />   <**TextView  android:id="@+id/txtImageSize"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_weight="1"  android:textSize="20dp"  android:text="TextView"** />  </**LinearLayout**> </**LinearLayout**> |

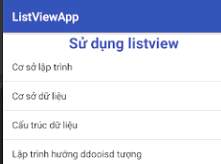
1. **Code**
2. **CustomAdapter class**

|  |
| --- |
| **package** com.example.nhanphan.customlistview;  **import** android.app.Activity; **import** android.content.Context; **import** android.support.annotation.NonNull; **import** android.support.annotation.Nullable; **import** android.view.LayoutInflater; **import** android.view.View; **import** android.view.ViewGroup; **import** android.widget.ArrayAdapter; **import** android.widget.CursorAdapter; **import** android.widget.ImageView; **import** android.widget.TextView;  **import** java.util.zip.Inflater;  **public class** CustomAdapter **extends** ArrayAdapter<String> {  Context **context**;  Integer[] **thumnails**;  String [] **imageNames**;  **public** CustomAdapter(Context context, **int** Layout, String [] imageNames, Integer[] thumnails){  **super**(context,R.layout.***custom\_row***,imageNames);  **this**.**context** = context;  **this**.**thumnails** = thumnails;  **this**.**imageNames** = imageNames;  }  @NonNull  @Override  **public** View getView(**int** position, @Nullable View convertView, @NonNull ViewGroup parent) {  *//return super.getView(position, convertView, parent);* LayoutInflater inflater = ((Activity)**context**).getLayoutInflater();  View row = inflater.inflate(R.layout.***custom\_row***, **null**);   ImageView imgIcon = (ImageView)row.findViewById(R.id.***imgIcon***);  TextView txtPhotoName = (TextView)row.findViewById(R.id.***txtPhotoName***);  TextView txtImageSize = (TextView)row.findViewById(R.id.***txtImageSize***);   imgIcon.setImageResource(**thumnails**[position]);  txtPhotoName.setText(**imageNames**[position]);  txtImageSize.setText(**"100x100"**);   **return** (row);  } } |

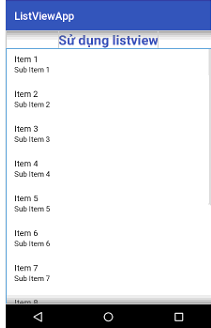
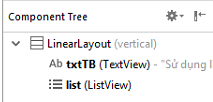
1. **MainActivity**

|  |
| --- |
| **package** com.example.nhanphan.customlistview; **import** android.support.v7.app.AppCompatActivity; **import** android.os.Bundle; **import** android.view.View; **import** android.widget.AdapterView; **import** android.widget.CursorAdapter; **import** android.widget.ListView; **import** android.widget.TextView;  **public class** MainActivity **extends** AppCompatActivity {  String **imageNames**[] = {**"Jungle"**,**"image2"**,**"image3"**,**"image4"**,**"image5"**,**"image6"**,**"image7"**,**"image8"** ,**"image9"**,**"image10"**,};  Integer **thumbnails**[] = {R.drawable.***s\_image1***,R.drawable.***s\_image2***, R.drawable.***s\_image3***, R.drawable.***s\_image4***,R.drawable.***s\_image5***,R.drawable.***s\_image6***,R.drawable.***s\_image7***,R.drawable.***s\_image8***,R.drawable.***s\_image9***,R.drawable.***s\_image10***};   ListView **lv**;  TextView **txttb**;  @Override  **protected void** onCreate(Bundle savedInstanceState) {  **super**.onCreate(savedInstanceState);  setContentView(R.layout.***activity\_main***);   **lv** = (ListView) findViewById(R.id.***lview***);  **txttb** = (TextView) findViewById(R.id.***txtTB***);   CustomAdapter adapter = **new** CustomAdapter(**this**, R.layout.***custom\_row***, **imageNames**, **thumbnails**);  **lv**.setAdapter(adapter);   **lv**.setOnItemClickListener(**new** AdapterView.OnItemClickListener() {  @Override  **public void** onItemClick(AdapterView<?> parent, View view, **int** position, **long** id) {  String selectedItem = **"Index: "** + position + **"\nName of image"** + **imageNames**[position];  **txttb**.setText(selectedItem);  }  });  } } |

1. **ListViewApp**
2. **Demo App**

1. **Hiển thị**
2. **GUI**

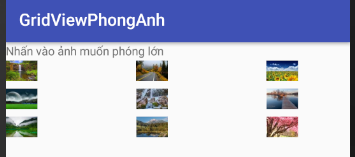
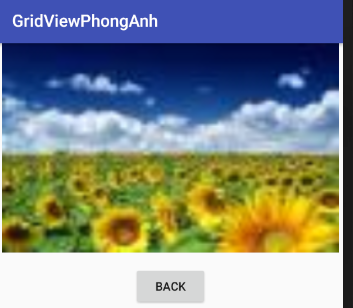
1. **Code**

|  |
| --- |
| *<?***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="wrap\_content"  android:orientation="vertical"  tools:context=".MainActivity"**>  <**TextView  android:id="@+id/txtTB"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:textSize="25dp"  android:textStyle="bold"  android:textColor="@color/colorPrimary"  android:layout\_gravity="center"  android:text="Sử dụng listview"**/>  <**ListView  android:id="@+id/list"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"**>  </**ListView**> </**LinearLayout**> |

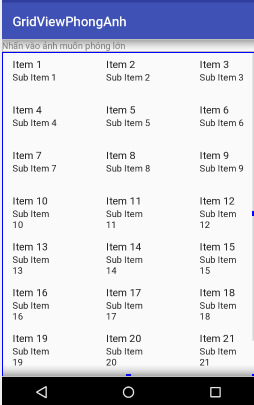
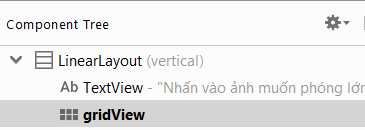
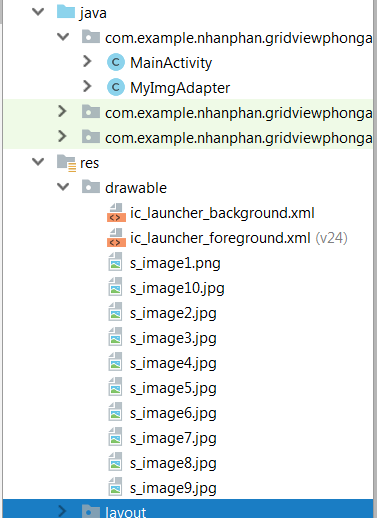
1. **Code**

|  |
| --- |
| **package** vn.edu.nhanphan.listviewapp;  **import** android.app.ListActivity; **import** android.support.v7.app.AppCompatActivity; **import** android.os.Bundle; **import** android.view.View; **import** android.widget.AdapterView; **import** android.widget.ArrayAdapter; **import** android.widget.ListView; **import** android.widget.TextView;  **import** java.lang.reflect.Array; *//Xây dựng ListView kế thừa tư ListActivity* **public class** MainActivity **extends** AppCompatActivity {   TextView **txtMSg**, **txtEmpty**;  ListView **listView**;  String[] **items** = {**"Cơ sở lập trình"**, **"Cơ sở dữ liệu"**,**"Cấu trúc dữ liệu"**,**"Lập trình hướng ddooisd tượng"**};  @Override  **protected void** onCreate(Bundle savedInstanceState) {  **super**.onCreate(savedInstanceState);  setContentView(R.layout.***activity\_main***);  **txtMSg** = (TextView) findViewById(R.id.***txtTB***);  **listView** = (ListView) findViewById(R.id.***list***);  **listView**.setAdapter(**new** ArrayAdapter<String>(**this**, android.R.layout.***simple\_list\_item\_1***, **items**));  *//setListAdapter(new ArrayAdapter<>(this, android.R.layout.simple\_list\_item\_1,items));  //apter(new ArrayAdapter<String>(this, android.R.layout.simple\_list\_item\_1, items));* **listView**.setOnItemClickListener(**new** AdapterView.OnItemClickListener() {  @Override  **public void** onItemClick(AdapterView<?> parent, View view, **int** position, **long** id) {  **txtMSg**.setText(**"Position: "**+position + **" "**+**items**[position]);  }  });  } } |

1. **GridView – Phóng ảnh**
2. **Demo**

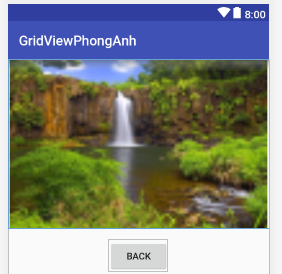
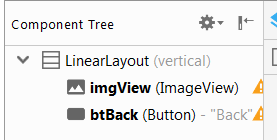
1. **activity\_main**
2. **Layout**

1. **Code**

|  |
| --- |
| *<?***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:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:text="Nhấn vào ảnh muốn phóng lớn"** />  <**GridView  android:id="@+id/gridView"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  android:addStatesFromChildren="true"  android:columnWidth="100dip"  android:stretchMode="spacingWidth"  android:verticalSpacing="5dip"  android:horizontalSpacing="5dip"  android:numColumns="auto\_fit"** /> </**LinearLayout**> |

1. **Zoom\_in.xml**
2. **GUI**

1. **Code**

|  |
| --- |
| *<?***xml version="1.0" encoding="utf-8"***?>* <**LinearLayout  xmlns:android="http://schemas.android.com/apk/res/android"  xmlns:apps="http://schemas.android.com/apk/res-auto"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  android:orientation="vertical"**>  <**ImageView  android:id="@+id/imgView"  android:layout\_width="match\_parent"  android:layout\_height="250dp"  apps:srcCompat="@drawable/s\_image1"** />  <**Button  android:id="@+id/btBack"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_gravity="center"  android:layout\_marginTop="16dp"  android:text="Back"** /> </**LinearLayout**> |

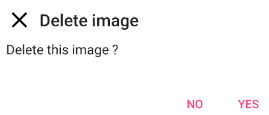
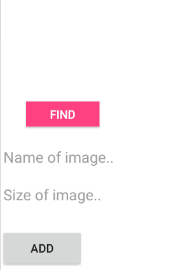
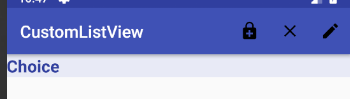
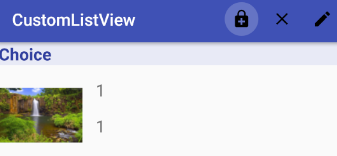
1. **Code**
2. **MyImgAdapter**

|  |
| --- |
| **package** com.example.nhanphan.gridviewphonganh;  **import** android.content.Context; **import** android.view.View; **import** android.view.ViewGroup; **import** android.widget.BaseAdapter; **import** android.widget.GridLayout; **import** android.widget.GridView; **import** android.widget.ImageView;  **public class** MyImgAdapter **extends** BaseAdapter{  **private** Context **context**;  Integer[] **smallImg**;   **public** MyImgAdapter(Context mainActivityContext, Integer[] fileAnh){  **context** = mainActivityContext;  **smallImg** = fileAnh;  }  **public** Context getContext() {  **return context**;  }  **public int** getCount(){*// Lấy chiều dài của mảng* **return smallImg**.**length**;  }  @Override  **public** Object getItem(**int** position) { *//xuất giá trị tại vị trí position trong mảng* **return smallImg**[position];  }  @Override  **public long** getItemId(**int** position) {  **return** position;  }  @Override  **public** View getView(**int** position, View convertView, ViewGroup parent) {  ImageView imageView;  **if** (convertView == **null**){ *// Kiểm tra nếu view bằng rỗng thì* imageView = **new** ImageView(**context**); *// gán imageview bằng View mà mình đã bấm* imageView.setLayoutParams(**new** GridView.LayoutParams(350,325)); *// set Layout có dộ dài là 100 độ cao 75* imageView.setScaleType(ImageView.ScaleType.***CENTER\_CROP***); *// chỉnh imgaeview nằm chính giữa dù kéo thế nào đi nữa* imageView.setPadding(5,5,5,5);  } **else** {  imageView = (ImageView) convertView;  }  imageView.setImageResource(**smallImg**[position]);  **return** imageView;  } } |

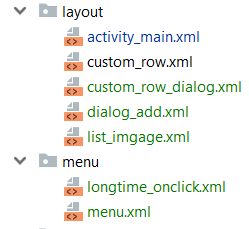
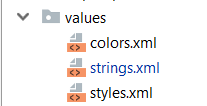
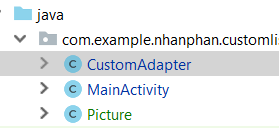
1. **MainActivity**

|  |
| --- |
| **package** com.example.nhanphan.gridviewphonganh;  **import** android.support.v7.app.AppCompatActivity; **import** android.os.Bundle; **import** android.view.View; **import** android.widget.AdapterView; **import** android.widget.Button; **import** android.widget.GridView; **import** android.widget.ImageView;  **public class** MainActivity **extends** AppCompatActivity {  Button **btnBack**;  ImageView **imagZoomIn**;  GridView **GridView**;  Bundle **myBundle**;  Integer[] **Hinhnho** = {R.drawable.***s\_image1***,R.drawable.***s\_image2***,R.drawable.***s\_image3***,R.drawable.***s\_image4***,  R.drawable.***s\_image5***,R.drawable.***s\_image6***,R.drawable.***s\_image7***,R.drawable.***s\_image8***,R.drawable.***s\_image9***};  Integer[] **Hinhto** = {R.drawable.***s\_image1***,R.drawable.***s\_image2***,R.drawable.***s\_image3***,R.drawable.***s\_image4***,  R.drawable.***s\_image5***,R.drawable.***s\_image6***,R.drawable.***s\_image7***,R.drawable.***s\_image8***,R.drawable.***s\_image9***};  @Override  **protected void** onCreate(Bundle savedInstanceState) {  **super**.onCreate(savedInstanceState);  setContentView(R.layout.***activity\_main***);   **myBundle** = savedInstanceState;  **GridView** = (GridView) findViewById(R.id.***gridView***);  **GridView**.setAdapter(**new** MyImgAdapter(MainActivity.**this**, **Hinhnho**));  **GridView**.setOnItemClickListener(**new** AdapterView.OnItemClickListener() {  @Override  **public void** onItemClick(AdapterView<?> parent, View view, **int** position, **long** id) {  showBigScreen(position);  onDestroy();  }  });  }  **public void** showBigScreen(**int** position){  setContentView(R.layout.***zoom\_in***);  **imagZoomIn** = (ImageView) findViewById(R.id.***imgView***);  **imagZoomIn**.setImageResource(**Hinhto**[position]);  **btnBack** = (Button) findViewById(R.id.***btBack***);  **btnBack**.setOnClickListener(**new** View.OnClickListener() {  @Override  **public void** onClick(View v) {  onCreate(**myBundle**);  }  });  } } |

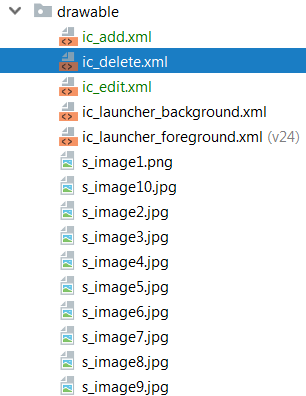
1. **Xem them xóa sửa listview.**
2. **Demo App**



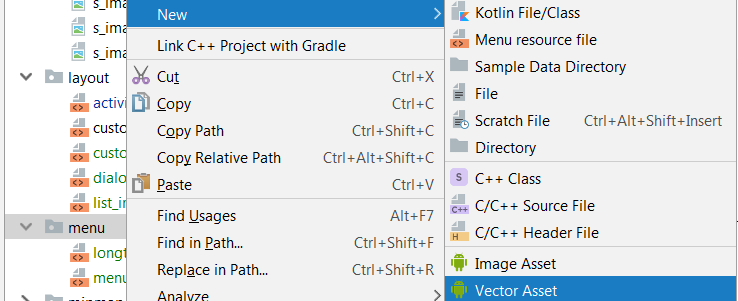
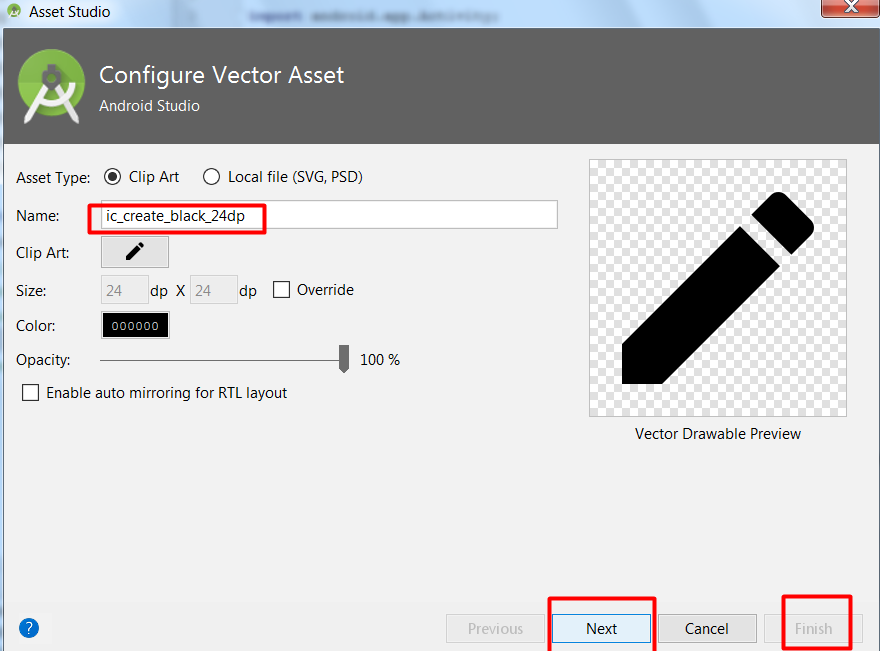
1. **Nhánh các thư mục**



1. **Drawable**

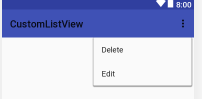
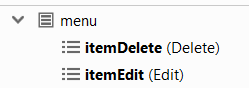


1. **Menu**

1. **longtime\_onclick.xml**

* **Layout**

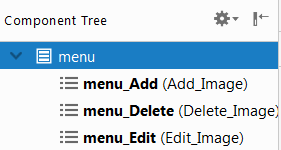
 

* **Code**

|  |
| --- |
| *<?***xml version="1.0" encoding="utf-8"***?>* <**menu xmlns:android="http://schemas.android.com/apk/res/android"**>  <**item  android:id="@+id/itemDelete"  android:icon="@drawable/ic\_delete"  android:title="Delete"** />  <**item  android:id="@+id/itemEdit"  android:icon="@drawable/ic\_edit"  android:title="Edit"** /> </**menu**> |

1. **menu.xml**

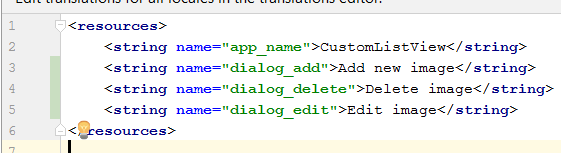
* **Layout**

* **Code**

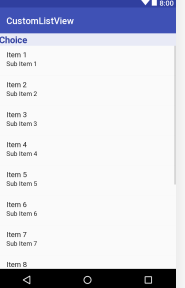
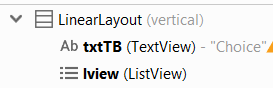
|  |
| --- |
| *<?***xml version="1.0" encoding="utf-8"***?>* <**menu xmlns:android="http://schemas.android.com/apk/res/android"  xmlns:app="http://schemas.android.com/apk/res-auto"**>  <**item  android:title="Add\_Image"  android:id="@+id/menu\_Add"  android:icon="@drawable/ic\_add"  app:showAsAction="withText|always"** />  <**item  android:title="Delete\_Image"  android:id="@+id/menu\_Delete"  android:icon="@drawable/ic\_delete"  app:showAsAction="withText|always"** />  <**item  android:title="Edit\_Image"  android:id="@+id/menu\_Edit"  android:icon="@drawable/ic\_edit"  app:showAsAction="withText|always"** /> </**menu**> |

1. **String**



1. **Layout**
2. **activity\_main.xml**

* **GUI**

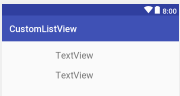
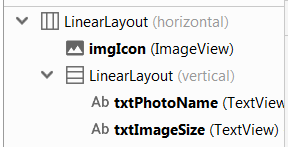
 

* **Code**

|  |
| --- |
| *<?***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"  tools:layout\_editor\_absoluteY="81dp"**>  <**TextView  android:id="@+id/txtTB"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:text="Choice"  android:layout\_gravity="center"  android:background="#E8EAF6"  android:textSize="20dp"  android:textStyle="bold"  android:textColor="@color/colorPrimaryDark"**/>  <**ListView  android:id="@+id/lview"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"** /> </**LinearLayout**> |

1. **custom\_row.xml**

* **GUI**

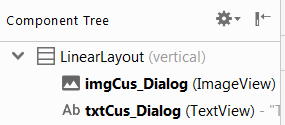
 

* **Code**

|  |
| --- |
| *<?***xml version="1.0" encoding="utf-8"***?>* <**LinearLayout  xmlns:android="http://schemas.android.com/apk/res/android" android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  android:orientation="horizontal"**>  <**ImageView  android:layout\_marginTop="10dp"  android:layout\_width="100dp"  android:layout\_height="100dp"  android:id="@+id/imgIcon"**/>  <**LinearLayout  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_margin="16dp"  android:orientation="vertical"**>  <**TextView  android:id="@+id/txtPhotoName"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_weight="1"  android:textSize="20dp"  android:layout\_marginBottom="16dp"  android:text="TextView"** />  <**TextView  android:id="@+id/txtImageSize"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_weight="1"  android:textSize="20dp"  android:text="TextView"** />  </**LinearLayout**> </**LinearLayout**> |

1. **custom\_row\_dialog.xml**

* **GUI**

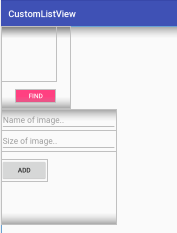
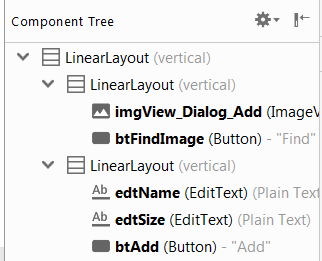
 

* **Code**

|  |
| --- |
| *<?***xml version="1.0" encoding="utf-8"***?>* <**LinearLayout  xmlns:android="http://schemas.android.com/apk/res/android" android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  android:orientation="vertical"**>  <**ImageView  android:id="@+id/imgCus\_Dialog"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"** />  <**TextView  android:id="@+id/txtCus\_Dialog"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_gravity="center\_vertical"  android:paddingLeft="10dp"  android:text="TextView"  android:textColor="#000"  android:textSize="20dp"** /> </**LinearLayout**> |

1. **dialog\_add.xml**

* **GUI**

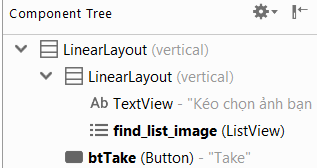
 

* **Code**

|  |
| --- |
| *<?***xml version="1.0" encoding="utf-8"***?>* <**LinearLayout  xmlns:android="http://schemas.android.com/apk/res/android" android:layout\_width="match\_parent"  xmlns:app="http://schemas.android.com/apk/res-auto"  android:layout\_height="match\_parent"  android:orientation="vertical"**>  <**LinearLayout  android:layout\_width="150dp"  android:layout\_height="180dp"  android:orientation="vertical"**>  <**ImageView  android:id="@+id/imgView\_Dialog\_Add"  android:layout\_width="120dp"  android:layout\_height="120dp"** />  <**Button  android:id="@+id/btFindImage"  android:layout\_marginTop="16dp"  android:layout\_width="wrap\_content"  android:layout\_height="30dp"  android:layout\_gravity="center\_horizontal"  android:text="Find"  android:textColor="#FFF"  android:background="@color/colorAccent"**/> </**LinearLayout**>  <**LinearLayout  android:layout\_width="250dp"  android:layout\_height="250dp"  android:orientation="vertical"**>  <**EditText  android:id="@+id/edtName"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:hint="Name of image.."  android:inputType="textPersonName"** />  <**EditText  android:id="@+id/edtSize"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:hint="Size of image.."  android:inputType="textPersonName"** />  <**Button  android:id="@+id/btAdd"  android:layout\_width="100dp"  android:layout\_height="wrap\_content"  android:layout\_marginTop="17dp"  android:text="Add"** />  </**LinearLayout**> </**LinearLayout**> |

1. **list\_imgage.xml**

* **GUI**

* Code

|  |
| --- |
| *<?***xml version="1.0" encoding="utf-8"***?>* <**LinearLayout  xmlns:android="http://schemas.android.com/apk/res/android"  android:layout\_width="match\_parent"  android:orientation="vertical"  android:layout\_height="match\_parent"**>  <**LinearLayout  android:layout\_marginTop="5dp"  android:layout\_width="wrap\_content"  android:layout\_height="350dp"  android:orientation="vertical"**>  <**TextView  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Kéo chọn ảnh bạn muốn"  android:textSize="20dp"  android:textStyle="bold"  android:layout\_gravity="center"  android:textColor="@color/colorPrimaryDark"**/>  <**ListView  android:id="@+id/find\_list\_image"  android:layout\_width="500dp"  android:layout\_height="200dp"  android:layout\_marginTop="10dp"** />  </**LinearLayout**>  <**Button  android:id="@+id/btTake"  android:layout\_gravity="center\_horizontal"  android:layout\_marginTop="10dp"  android:layout\_width="150dp"  android:layout\_height="wrap\_content"  android:text="Take"** /> </**LinearLayout**> |

1. **Picture class**

|  |
| --- |
| **package** com.example.nhanphan.customlistview;  **public class** Picture {  **private int imgID**;  **private** String **imgName**;  **private** String **imgSize**;   **public** Picture(**int** imgID, String imgName, String imgSize) {  **this**.**imgID** = imgID;  **this**.**imgName** = imgName;  **this**.**imgSize** = imgSize;  }  **public** Picture(**int** imgID) {  **this**.**imgID** = imgID;  }  **public int** getImgID() {  **return imgID**;  }   **public void** setImgID(**int** imgID) {  **this**.**imgID** = imgID;  }   **public** String getImgName() {  **return imgName**;  }   **public void** setImgName(String imgName) {  **this**.**imgName** = imgName;  }   **public** String getImgSize() {  **return imgSize**;  }   **public void** setImgSize(String imgSize) {  **this**.**imgSize** = imgSize;  } } |

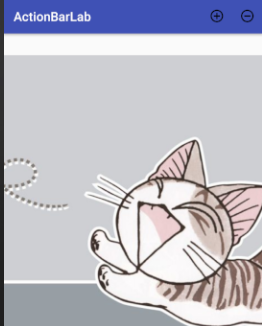
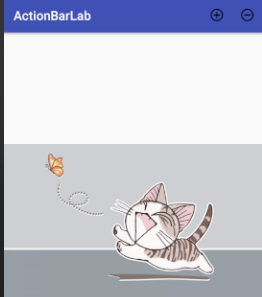
1. **CustomAapter class.**

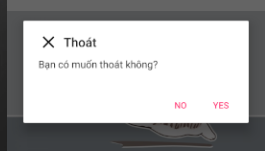
|  |
| --- |
| **package** com.example.nhanphan.customlistview;  **import** android.app.Activity; **import** android.content.Context; **import** android.support.annotation.NonNull; **import** android.support.annotation.Nullable; **import** android.view.LayoutInflater; **import** android.view.View; **import** android.view.ViewGroup; **import** android.widget.ArrayAdapter; **import** android.widget.CursorAdapter; **import** android.widget.ImageView; **import** android.widget.TextView;  **import** java.util.ArrayList; **import** java.util.zip.Inflater;  **public class** CustomAdapter **extends** ArrayAdapter{  Context **context**;  *// Integer[] thumnails;  // String [] imageNames;* **private int resource**;  **private** ArrayList<Picture> **arr** = **new** ArrayList<Picture>();  **public** CustomAdapter( @NonNull Context context, **int** resource, ArrayList<Picture> arr){  **super**(context,resource,arr);  **this**.**context** = context;  **this**.**resource**= resource;  **this**.**arr** = arr;  }  @NonNull  @Override  **public** View getView(**int** position, @Nullable View convertView, @NonNull ViewGroup parent) {  *//return super.getView(position, convertView, parent);* LayoutInflater inflater = ((Activity)**context**).getLayoutInflater();  View row = inflater.inflate(**resource**, **null**);   **switch** (**resource**){  **case** R.layout.***custom\_row***: *// resource kiểu int* ImageView imgIcon = (ImageView)row.findViewById(R.id.***imgIcon***);  TextView txtPhotoName = (TextView)row.findViewById(R.id.***txtPhotoName***);  TextView txtImageSize = (TextView)row.findViewById(R.id.***txtImageSize***);   Picture item = **arr**.get(position);  imgIcon.setImageResource(item.getImgID());  txtPhotoName.setText(item.getImgName());  txtImageSize.setText(item.getImgSize());  **break**;  **case** R.layout.***custom\_row\_dialog***:  ImageView imgDialog = row.findViewById(R.id.***imgCus\_Dialog***);  TextView nameDialog = row.findViewById(R.id.***txtCus\_Dialog***);  Picture itemDialog = **arr**.get(position);  imgDialog.setImageResource(itemDialog.getImgID());  nameDialog.setText(itemDialog.getImgID());  }  **return** (row);  } } |

1. **Code Main**

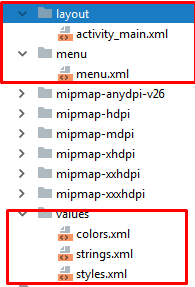
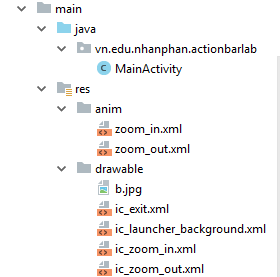
|  |
| --- |
| **package** com.example.nhanphan.customlistview;  **import** android.app.AlertDialog; **import** android.app.Dialog; **import** android.content.DialogInterface; **import** android.support.v7.app.AppCompatActivity; **import** android.os.Bundle; **import** android.view.ContextMenu; **import** android.view.Menu; **import** android.view.MenuItem; **import** android.view.View; **import** android.widget.AdapterView; **import** android.widget.Button; **import** android.widget.CursorAdapter; **import** android.widget.EditText; **import** android.widget.ImageView; **import** android.widget.ListView; **import** android.widget.TextView; **import** android.widget.Toast;  **import** java.util.ArrayList;  **public class** MainActivity **extends** AppCompatActivity {  String **imageNames**[] = {**"Jungle"**,**"image2"**,**"image3"**,**"image4"**,**"image5"**,**"image6"**,**"image7"**,**"image8"** ,**"image9"**,**"image10"**,};  Integer **img**[] = {R.drawable.***s\_image1***,R.drawable.***s\_image2***, R.drawable.***s\_image3***, R.drawable.***s\_image4***,R.drawable.***s\_image5***,R.drawable.***s\_image6***,R.drawable.***s\_image7***,R.drawable.***s\_image8***,R.drawable.***s\_image9***,R.drawable.***s\_image10***};   ListView **lv**;  TextView **txttb**;  **int pathImg**, **position**;  CustomAdapter **adapter**, **imagesAdapter**;*// adapter(main layout), imagesAdapter(ở Dialog)* ArrayList<Picture> **listImg** = **new** ArrayList<Picture>(); *//List hình ảnh main Layout* ArrayList<Picture> **arr\_image** = **new** ArrayList<Picture>();*// List hình ảnh ở Dialog* **private void** loadAdapter(){  **adapter** = **new** CustomAdapter(**this**,R.layout.***custom\_row***, **listImg**);  **lv**.setAdapter(**adapter**);  }  @Override  **protected void** onCreate(Bundle savedInstanceState) {  **super**.onCreate(savedInstanceState);  setContentView(R.layout.***activity\_main***);   **lv** = (ListView) findViewById(R.id.***lview***);  **txttb** = (TextView) findViewById(R.id.***txtTB***);  loadAdapter();  registerForContextMenu(**lv**);  }  *//Tạo menu khi nhấn giữ một item trong listView* @Override  **public void** onCreateContextMenu(ContextMenu menu, View v,ContextMenu.ContextMenuInfo menuInfo) {  getMenuInflater().inflate(R.menu.***longtime\_onclick***, menu);  **super**.onCreateContextMenu(menu, v, menuInfo);  }  @Override  **public boolean** onCreateOptionsMenu(Menu thisMenu) {  *//Tạo menu khi nhấn giữ một item trong listView* getMenuInflater().inflate(R.menu.***menu***, thisMenu);  **return super**.onCreateOptionsMenu(thisMenu);  }  *//Sự kiện thêm hình ảnh* **private void** Add(){  *//Dialog chứa hình ảnh* **final** Dialog imgDialog = **new** Dialog(**this**);  *//Dialog chứa thông tin cần nhập* **final** Dialog dialog = **new** Dialog(**this**);  dialog.setTitle(**"Add new image"**);  dialog.setContentView(R.layout.***dialog\_add***);   **final** Button btFind = dialog.findViewById(R.id.***btFindImage***);  **final** Button btAdd = dialog.findViewById(R.id.***btAdd***);  **final** EditText name = dialog.findViewById(R.id.***edtName***);  **final** EditText size = dialog.findViewById(R.id.***edtSize***);  **final** ImageView pic = dialog.findViewById(R.id.***imgView\_Dialog\_Add***);   dialog.show();  *//Xử lí sự kiện nhấn nút Chọn hình ảnh(Find)* btFind.setOnClickListener(**new** View.OnClickListener() {  @Override  **public void** onClick(View view) {  imgDialog.setTitle(**"List pictures"**);  imgDialog.setContentView(R.layout.***list\_imgage***);   **final** ListView listAllImages = imgDialog.findViewById(R.id.***find\_list\_image***);  **final** Button btTake = imgDialog.findViewById(R.id.***btTake***);   **for**(**int** i = 0; i < **img**.**length**; i++){ *// mảng ảnh* Picture a = **new** Picture(**img**[i]);  **arr\_image**.add(a);  }  imgDialog.show();   listAllImages.setAdapter(**imagesAdapter**);   listAllImages.setOnItemClickListener(**new** AdapterView.OnItemClickListener() {  @Override  **public void** onItemClick(AdapterView<?> adapterView, View view, **int** i, **long** id) {   **pathImg** = **arr\_image**.get(i).getImgID();  view.setBackgroundResource(R.color.***colorAccent***);  btTake.setOnClickListener(**new** View.OnClickListener() {  @Override  **public void** onClick(View view) {  pic.setImageResource(**pathImg**);  imgDialog.dismiss();  }  });  }  });  }*//Kết thúc chọn hình ảnh* });  *//Xử lí sự kiện khi nút Thêm (Add) được nhấn* btAdd.setOnClickListener(**new** View.OnClickListener() {  @Override  **public void** onClick(View view) {  **if**(**pathImg** == 0){  Toast.*makeText*(getApplicationContext(),**"Image is null.."**, Toast.***LENGTH\_SHORT***).show();  }**else if**(name.getText().length() == 0){  Toast.*makeText*(getApplicationContext(),**"Name is null.."**, Toast.***LENGTH\_SHORT***).show();  }**else if**(size.getText().length() == 0){  Toast.*makeText*(getApplicationContext(),**"Size is null.."**, Toast.***LENGTH\_SHORT***).show();  }**else**{  **listImg**.add(**new** Picture(**pathImg**, name.getText().toString(), size.getText().toString()));  loadAdapter();  **pathImg** = 0; *//reset lại id của hình* dialog.dismiss();  Toast.*makeText*(getApplicationContext(),**"Add complete.."**, Toast.***LENGTH\_SHORT***).show();  }  }  });  }  **private void** editImage(){  *//Dialog chứa hình ảnh* **final** Dialog imgDialog = **new** Dialog(**this**);  *//Dialog chứa thông tin cần nhập* **final** Dialog dialog = **new** Dialog(**this**);  dialog.setTitle(**"Edit image"**);  dialog.setContentView(R.layout.***dialog\_add***);   **final** Button btFind = dialog.findViewById(R.id.***btFindImage***);  **final** Button btEdit = dialog.findViewById(R.id.***btAdd***);  **final** EditText name = dialog.findViewById(R.id.***edtName***);  **final** EditText size = dialog.findViewById(R.id.***edtSize***);  **final** ImageView pic = dialog.findViewById(R.id.***imgView\_Dialog\_Add***);   btEdit.setText(**"Edit"**); *//Sửa chữ Add thành Edit* dialog.show();  *//Xử lí sự kiện nhấn nút Chọn hình ảnh(Find)* btFind.setOnClickListener(**new** View.OnClickListener() {  @Override  **public void** onClick(View view) {  imgDialog.setTitle(**"List pictures"**);  imgDialog.setContentView(R.layout.***list\_imgage***);*// lấy layout cho dialog* **final** ListView listAllImages = imgDialog.findViewById(R.id.***find\_list\_image***);  **final** Button btTake = imgDialog.findViewById(R.id.***btTake***);   *// Lấy hình ảnh vào ArrayList arr\_iamge* **for**(**int** i = 0; i < **img**.**length**; i++){  Picture a = **new** Picture(**img**[i]);  **arr\_image**.add(a);  }   imgDialog.show();   listAllImages.setAdapter(**imagesAdapter**);*// Đưa dữ liệu vào layout chứa danh sách hình ảnh* listAllImages.setOnItemClickListener(**new** AdapterView.OnItemClickListener() {  @Override  **public void** onItemClick(AdapterView<?> adapterView, View view, **int** i, **long** id) {   **pathImg** = **arr\_image**.get(i).getImgID(); *// lấy id của hình* view.setBackgroundResource(R.color.***colorAccent***); *// background màu hồng mỗi lần click* btTake.setOnClickListener(**new** View.OnClickListener() {  @Override  **public void** onClick(View view) {  pic.setImageResource(**pathImg**); *//gán hình ảnh cho Dialog* imgDialog.dismiss();  }  });  }  });  }*//Kết thúc chọn hình ảnh* });  *//Xử lí sự kiện khi nút Thêm (Add) được nhấn* btEdit.setOnClickListener(**new** View.OnClickListener() {  @Override  **public void** onClick(View view) {  **if**(**pathImg** == 0){  **pathImg** = **listImg**.get(**position**).getImgID(); *//gán id hình cũ vào* }  **if**(name.getText().length() != 0){  **listImg**.get(**position**).setImgName(name.getText().toString()); *// gán tên mới vào nếu độ dài chuỗi nhập khác 0* }  **if**(size.getText().length() != 0){  **listImg**.get(**position**).setImgSize(size.getText().toString());*// gán size mới vào nếu độ dài chuỗi nhập khác 0* }  **listImg**.get(**position**).setImgID(**pathImg**); *// gán hình mới(hoặc cũ) vào* loadAdapter(); *// load lại dữ liệu* **pathImg** = 0; *//reset lại id của hình* dialog.dismiss(); *// đóng dialog* Toast.*makeText*(getApplicationContext(), **"Edit complete.."**, Toast.***LENGTH\_SHORT***).show();  }  });  }  *//Xóa hình(Delete)* **private void** Delete(){  **final** AlertDialog.Builder builder = **new** AlertDialog.Builder(**this**);  builder.setTitle(**"Delete image"**)  .setIcon(R.drawable.***ic\_delete***)  .setMessage(**"Delete this image ?"**)  .setNegativeButton(**"No"**, **new** DialogInterface.OnClickListener() {  @Override  **public void** onClick(DialogInterface dialogInterface, **int** i) {  }  })  .setPositiveButton(**"Yes"**, **new** DialogInterface.OnClickListener() {  @Override  **public void** onClick(DialogInterface dialogInterface, **int** i) {  **if**(**listImg**.size() == 0){  Toast.*makeText*(getApplicationContext(),**"The list is null.."**, Toast.***LENGTH\_SHORT***).show();  }**else** {  **listImg**.remove(**position**);  loadAdapter();  Toast.*makeText*(getApplicationContext(), **"Delete complete.."**, Toast.***LENGTH\_SHORT***).show();  }  }  });  builder.show();  }  @Override  **public boolean** onOptionsItemSelected(MenuItem item) {  **int** id = item.getItemId();  **switch** (id){  **case** R.id.***menu\_Add***:  **imagesAdapter** = **new** CustomAdapter(**this**, R.layout.***custom\_row\_dialog***, **arr\_image**);  Add();  **break**;  **case** R.id.***menu\_Delete***:  **lv**.setOnItemClickListener(**new** AdapterView.OnItemClickListener() {  @Override  **public void** onItemClick(AdapterView<?> adapterView, View view, **int** i, **long** l) {  **position** = i;  }  });  Delete();  **break**;  **case** R.id.***menu\_Edit***:  **if**(**listImg**.size() == 0){  Toast.*makeText*(getApplicationContext(),**"The list is null.."**, Toast.***LENGTH\_SHORT***).show();  }**else** {  **lv**.setOnItemClickListener(**new** AdapterView.OnItemClickListener() {  @Override  **public void** onItemClick(AdapterView<?> adapterView, View view, **int** i, **long** l) {  **position** = i;  }  });  editImage();  }  **break**;  }  **return true**;  }  *//Xử lý sự kiện nhấn đè 1 item trong listView* @Override  **public boolean** onContextItemSelected(MenuItem item) {  *// Lấy thông tin về Context (view, item được chọn)* AdapterView.AdapterContextMenuInfo info = (AdapterView.AdapterContextMenuInfo) item.getMenuInfo();  **position** = info.**position**;  **int** id = item.getItemId();  **switch** (id){  **case** R.id.***itemDelete***:  Delete();  **break**;  **case** R.id.***itemEdit***:  editImage();  **break**;  }  **return true**;  } } |

1. **MENU**
2. **Demo App**

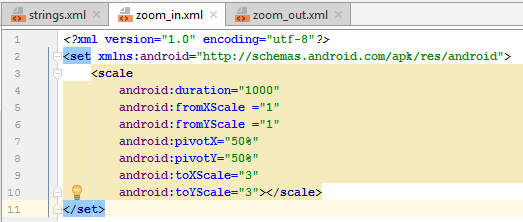


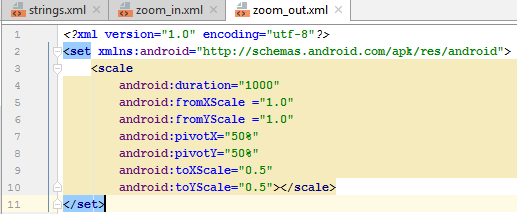


1. **Thư mục**



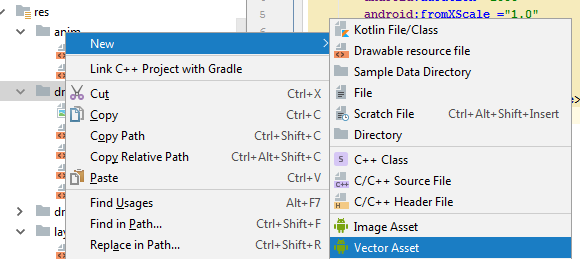
1. **Anim**



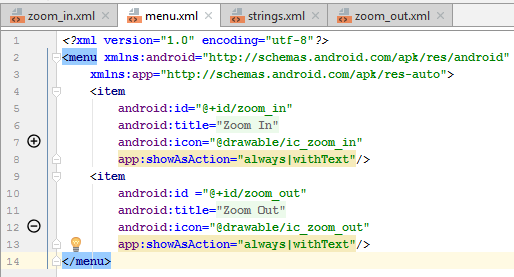


1. **Drawable**

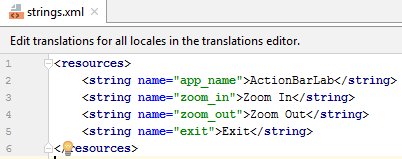
Chọn ảnh, tạo thư mục,…



1. **Menu**

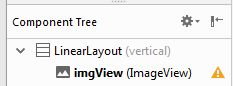
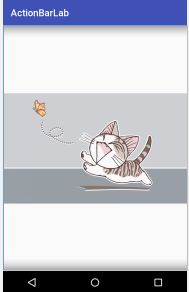


1. **Values**



1. **Layout**

* **GUI**



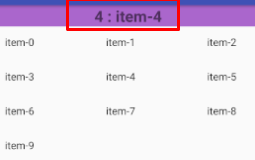
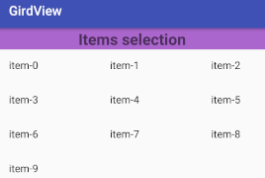
* **Code**

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| *<?***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"**>  <**ImageView  android:id="@+id/imgView"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  app:srcCompat="@drawable/b"** /> </**LinearLayout**> |

1. **Code**

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| **package** vn.edu.nhanphan.actionbarlab;  **import** android.app.DatePickerDialog; **import** android.content.DialogInterface; **import** android.graphics.drawable.Animatable; **import** android.support.v7.app.AlertDialog; **import** android.support.v7.app.AppCompatActivity; **import** android.os.Bundle; **import** android.view.Menu; **import** android.view.MenuInflater; **import** android.view.MenuItem; **import** android.graphics.drawable.Animatable; **import** android.view.animation.Animation; **import** android.view.animation.AnimationUtils; **import** android.widget.ImageView;  **public class** MainActivity **extends** AppCompatActivity {  ImageView **imageView**;  @Override  **protected void** onCreate(Bundle savedInstanceState) {  **super**.onCreate(savedInstanceState);  setContentView(R.layout.***activity\_main***);  **imageView** = (ImageView) findViewById(R.id.***imgView***);  }  @Override  **public boolean** onCreateOptionsMenu(Menu menu) { *// Lấy menu* MenuInflater inflater = getMenuInflater();  inflater.inflate(R.menu.***menu***,menu); *// Nhớ khai báo trong thư mục menu* **return true**;  *// return super.onCreateOptionsMenu(menu);* }  @Override  **public boolean** onOptionsItemSelected(MenuItem item) {  **int** id = item.getItemId();  Animation zoom = **null**;  **switch** (id){  **case** R.id.***zoom\_in***:  zoom = AnimationUtils.*loadAnimation*(**this**, R.anim.***zoom\_in***); *// Lấyt ừ thư mục* **break**;  **case** R.id.***zoom\_out***:  zoom = AnimationUtils.*loadAnimation*(**this**, R.anim.***zoom\_out***); *// Lấyt ừ thư mục* }  **imageView**.startAnimation(zoom);  **return super**.onOptionsItemSelected(item);  }   @Override  **public void** onBackPressed() {  AlertDialog.Builder builder = **new** AlertDialog.Builder(MainActivity.**this**);  builder.setTitle(**"Thoát"**)  .setMessage(**"Bạn có muốn thoát không?"**)  .setIcon(R.drawable.***ic\_exit***).setPositiveButton(**"Yes"**, **new** DialogInterface.OnClickListener() {  @Override  **public void** onClick(DialogInterface dialog, **int** which) {  finish();  }  }).setNegativeButton(**"No"**, **new** DialogInterface.OnClickListener() {  @Override  **public void** onClick(DialogInterface dialog, **int** which) {  dialog.cancel();  }  }).create().show();  *//super.onBackPressed();* } } |

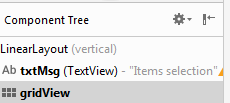
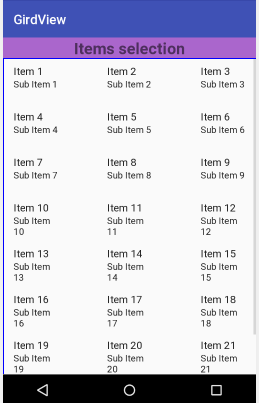
1. **GridView**
2. **DemoApp**



1. **Layout**
2. **String**

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| <**resources**>  <**string name="app\_name"**>GirdView</**string**>  <**string-array name="data"**>  <**item**>item-0</**item**>  <**item**>item-1</**item**>  <**item**>item-2</**item**>  <**item**>item-3</**item**>  <**item**>item-4</**item**>  <**item**>item-5</**item**>  <**item**>item-6</**item**>  <**item**>item-7</**item**>  <**item**>item-8</**item**>  <**item**>item-9</**item**>  </**string-array**> </**resources**> |

1. **GUI**



1. **Code**

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| *<?***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/txtMsg"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:background="@android:color/holo\_purple"  android:textStyle="bold"  android:textSize="24dp"  android:gravity="center"  android:text="Items selection"** />  <**GridView  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  android:numColumns="auto\_fit"  android:columnWidth="100dip"  android:stretchMode="spacingWidth"  android:verticalSpacing="5dip"  android:horizontalSpacing="5dip"  android:id="@+id/gridView"**/> </**LinearLayout**> |

1. **Code**

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| **package** vn.edu.nhanphan.girdview;  **import** android.support.v7.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** MainActivity **extends** AppCompatActivity {   TextView **textViewxtMsg**;  GridView **gridView1**;  @Override  **protected void** onCreate(Bundle savedInstanceState) {  **super**.onCreate(savedInstanceState);  setContentView(R.layout.***activity\_main***);   **textViewxtMsg** = (TextView) findViewById(R.id.***txtMsg***);  **gridView1** = (GridView) findViewById(R.id.***gridView***);  ArrayAdapter a = ArrayAdapter.*createFromResource*(**this**, R.array.***data***,android.R.layout.***simple\_list\_item\_1*** );  **gridView1**.setAdapter(a);  **gridView1**.setOnItemClickListener(**new** AdapterView.OnItemClickListener() {  @Override  **public void** onItemClick(AdapterView<?> parent, View view, **int** position, **long** id) {  TextView txtText = (TextView) view;  **textViewxtMsg**.setText(Integer.*toString*(position)+**" : "** + txtText.getText().toString());  }  });  } } |