Lab Manual

Lab (4): Image View

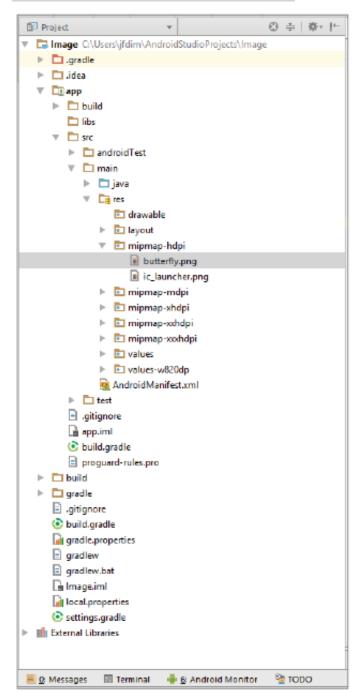


Visual Programming for Smart Devices lab

Objectives:

create an android application using Image View

Goal: using Image view to display pictures.



ImageView View

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The ImageView is a view that shows images on the device screen. The following Try It Out shows you how to use the ImageView view to display an image.

TRY IT OUT Using the Image View (Gallery.zip)

- Using Android Studio, create a new Android project and name it Image.
- Add an image to your project under the res/mipmap folder as shown in Figure 6-1. (The image I used in this example is butterfly.png from http://jfdimarzio.com/butterfly.png.)
 Please note that you must be in project view to drag and drop images into the res/mipmap folder.
- Modify the activity main.xml file as shown in bold:

```
<?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/activity_main"
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    tools:context="com.jfdimarzio.image.MainActivity">
    <android.support.v7.widget.AppCompatImageView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:src="@mipmap/butterfly" />
</LinearLayout>
```

4. Press Shift+F9 to debug the application on the Android emulator. Figure 6-2 shows the image displayed in the Image view.



FIGURE 6-2

Task 1: create an application have one button to replace your image to another image.

```
<?xml version="1.0" encoding="utf-8"?>
<GridLayout 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=".MainActivity">
  <ImageView
    android:layout_height="wrap_content"
    android:layout_width="fill_parent"
    android:id="@+id/imag1"
    android:src="@drawable/rain"
    android:layout_column="1"
    android:layout_row="0"/>
  <Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/bt1"
    android:text="click me"
    android:layout_row="1"
    android:layout_column="1"
    android:onClick="changeImg"
    />
</GridLayout>
```

```
package com.example.user.image;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
public class MainActivity extends AppCompatActivity {
  @Override
 protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
 }
 public void changeImg(View view) {
    ImageView iv=(ImageView)findViewById(R.id.imag1);
    Button bt=(Button)findViewById(R.id.bt1);
    iv.setImageResource(R.drawable.rain2);
 }
}
```

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