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**ITMD – 455**

**Lab – 3**

**James Papademas**

**Source Codes:**

**DataSource.java:**

**package** com.example.dipendelvadiya.quotes;  
  
**import** java.util.ArrayList;  
  
*/\*\*  
 \* Created by dipendelvadiya on 2/24/17.  
 \*/***public class** DataSource {  
 **private** ArrayList<Integer> **mPhotoPool**;  
 **private** ArrayList<Integer> **mQuotePool**;  
 **private** ArrayList<Integer> **mPhotoHdPool**;  
  
 **public** ArrayList<Integer> getmPhotoHdPool() {  
 **return mPhotoHdPool**;  
 }  
  
 **public** ArrayList<Integer> getmPhotoPool() {  
 **return mPhotoPool**;  
 }  
  
 **public** ArrayList<Integer> getmQuotePool() {  
 **return mQuotePool**;  
 }  
  
 **private void** setupPhotoPool() {  
 **mPhotoPool**.add(R.drawable.***steve\_1***);  
 **mPhotoPool**.add(R.drawable.***steve\_2***);  
 **mPhotoPool**.add(R.drawable.***steve\_3***);  
 **mPhotoPool**.add(R.drawable.***steve\_4***);  
 **mPhotoPool**.add(R.drawable.***steve\_5***);  
 **mPhotoPool**.add(R.drawable.***gandhi\_1***);  
 **mPhotoPool**.add(R.drawable.***gandhi\_2***);  
 **mPhotoPool**.add(R.drawable.***modi\_1***);  
 **mPhotoPool**.add(R.drawable.***modi\_2***);  
 **mPhotoPool**.add(R.drawable.***modi\_3***);  
 }  
 **private void** setupQuotePool() {  
 **mQuotePool**.add(R.string.***quote\_1***);  
 **mQuotePool**.add(R.string.***quote\_2***);  
 **mQuotePool**.add(R.string.***quote\_3***);  
 **mQuotePool**.add(R.string.***quote\_4***);  
 **mQuotePool**.add(R.string.***quote\_5***);  
 **mQuotePool**.add(R.string.***quote\_6***);  
 **mQuotePool**.add(R.string.***quote\_7***);  
 **mQuotePool**.add(R.string.***quote\_8***);  
 **mQuotePool**.add(R.string.***quote\_9***);  
 **mQuotePool**.add(R.string.***quote\_10***);  
  
 }  
 **private void** setupPhotoHDPool() {  
 **mPhotoHdPool**.add(R.drawable.***steve\_hd\_1***);  
 **mPhotoHdPool**.add(R.drawable.***steve\_hd\_2***);  
 **mPhotoHdPool**.add(R.drawable.***steve\_hd\_3***);  
 **mPhotoHdPool**.add(R.drawable.***steve\_hd\_4***);  
 **mPhotoHdPool**.add(R.drawable.***steve\_hd\_5***);  
 **mPhotoHdPool**.add(R.drawable.***gandhi\_hd\_1***);  
 **mPhotoHdPool**.add(R.drawable.***gandhi\_hd\_2***);  
 **mPhotoHdPool**.add(R.drawable.***modi\_hd\_1***);  
 **mPhotoHdPool**.add(R.drawable.***modi\_hd\_2***);  
 **mPhotoHdPool**.add(R.drawable.***modi\_hd\_3***);  
 }  
  
 **public int** getDataSourceLength() {  
 **return mPhotoPool**.size();  
 }  
  
 **public** DataSource() {  
 **mPhotoPool** = **new** ArrayList();  
 **mQuotePool** = **new** ArrayList();  
 **mPhotoHdPool** = **new** ArrayList();  
 setupPhotoPool();  
 setupQuotePool();  
 setupPhotoHDPool();  
  
 }  
  
}

**QuoteDetail.java:**

**package** com.example.dipendelvadiya.quotes;  
  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.widget.ImageView;  
**import** android.widget.TextView;  
  
*/\*\*  
 \* Created by dipendelvadiya on 2/24/17.  
 \*/***public class** QuoteDetail **extends** AppCompatActivity {  
  
  
 **private** ImageView **mImageView**;  
 **private** TextView **mQuote**;  
 **private int mPosition**;  
 **private** DataSource **mDataSource**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***quote\_detail***);  
  
  
 Intent i = getIntent();  
 **mPosition** = i.getIntExtra(**"position"**, 0);  
  
 **mDataSource** = **new** DataSource();  
 **mImageView** = (ImageView) findViewById(R.id.***image***);  
 **mQuote** = (TextView) findViewById(R.id.***quote***);  
  
 **mImageView**.setImageResource(**mDataSource**.getmPhotoHdPool().  
 get(**mPosition**));  
  
 **mQuote**.setText(getResources().getString(**mDataSource**.getmQuotePool()  
 .get(**mPosition**)));  
  
 }  
}

**QuoteReaderActivity.java:**

**package** com.example.dipendelvadiya.quotes;  
  
**import** android.content.Context;  
**import** android.content.Intent;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.LayoutInflater;  
**import** android.view.View;  
**import** android.view.ViewGroup;  
**import** android.widget.AdapterView;  
**import** android.widget.BaseAdapter;  
**import** android.widget.ImageView;  
**import** android.widget.ListView;  
**import** android.widget.TextView;  
  
**public class** QuoteReaderActivity **extends** AppCompatActivity {  
  
 **public class** QuoteAdapter **extends** BaseAdapter {  
  
  
 **private** Context **mContext**;  
 **private** LayoutInflater **mInflator**;  
 **private** DataSource **mDataSource**;  
  
 **public** QuoteAdapter(Context c) {  
 **mContext** = c;  
 **mInflator** = (LayoutInflater)  
 **mContext**.getSystemService(Context.***LAYOUT\_INFLATER\_SERVICE***);  
 **mDataSource** = **new** DataSource();  
 }  
  
  
 @Override  
 **public int** getCount() {  
 **return mDataSource**.getDataSourceLength();  
 }  
  
 @Override  
 **public** Object getItem(**int** position) {  
 **return** position;  
 }  
  
 @Override  
 **public long** getItemId(**int** position) {  
 **return** position;  
 }  
  
  
 @Override  
 **public** View getView(**int** position, View convertView, ViewGroup parent) {  
 ImageView thumbnail;  
 TextView quote;  
  
 **if**(convertView == **null**) {  
 convertView = **mInflator**.inflate(R.layout.***list\_item\_layout***, parent,  
 **false**);  
 }  
  
 thumbnail = (ImageView) convertView.findViewById(R.id.***thumb***);  
 thumbnail.setImageResource(**mDataSource**.getmPhotoPool().get(position));  
 quote = (TextView) convertView.findViewById(R.id.***text***);  
 quote.setText(**mDataSource**.getmQuotePool().get(position));  
 **return** convertView;  
 }  
  
 }  
  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_quote\_reader***);  
 ListView mListView = (ListView) findViewById(R.id.***quotes\_list***);  
 mListView.setAdapter(**new** QuoteAdapter(**this**));  
 mListView.setOnItemClickListener(**new** AdapterView.OnItemClickListener() {  
  
 @Override  
 **public void** onItemClick(AdapterView arg0, View arg1, **int** position,  
 **long** arg3) {  
 Intent i = **new** Intent(QuoteReaderActivity.**this**, QuoteDetail.**class**);  
 i.putExtra(**"position"**, position);  
 startActivity(i);  
 }  
 });  
  
 }  
}

**AndroidManifest.xml:**

*<?***xml version="1.0" encoding="utf-8"***?>*<**manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.example.dipendelvadiya.quotes"**>  
  
 <**application  
 android:allowBackup="true"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:supportsRtl="true"  
 android:theme="@style/AppTheme"**>  
 <**activity android:name=".QuoteReaderActivity"**>  
 <**intent-filter**>  
 <**action android:name="android.intent.action.MAIN"** />  
  
 <**category android:name="android.intent.category.LAUNCHER"** />  
 </**intent-filter**>  
 </**activity**>  
 <**activity  
 android:name=".QuoteDetail"  
 android:screenOrientation="portrait"** >  
 </**activity**>  
  
 </**application**>  
  
</**manifest**>

**activiyu\_quote\_reader.xml:**

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:id="@+id/activity\_quote\_reader"  
 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="com.example.dipendelvadiya.quotes.QuoteReaderActivity"**>  
  
 <**ListView xmlns:android="http://schemas.android.com/apk/res/android"  
 android:id="@+id/quotes\_list"  
 android:layout\_width="fill\_parent"  
 android:layout\_height="fill\_parent"**>  
 </**ListView**>  
  
</**RelativeLayout**>

**list\_item\_layout.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="100dip"**>  
 <**ImageView  
 android:id="@+id/thumb"  
 android:layout\_width="60dip"  
 android:layout\_height="60dip"  
 android:layout\_centerVertical="true"  
 android:layout\_alignParentLeft="true"** />  
 <**TextView  
 android:id="@+id/text"  
 android:layout\_toRightOf="@+id/thumb"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:textSize="18dip"  
 android:layout\_marginLeft="10dip"  
 android:layout\_centerVertical="true"  
 android:singleLine="true"  
 android:ellipsize="end"  
 android:textStyle="bold"**/>  
</**RelativeLayout**>

**quote\_detail.xml:**

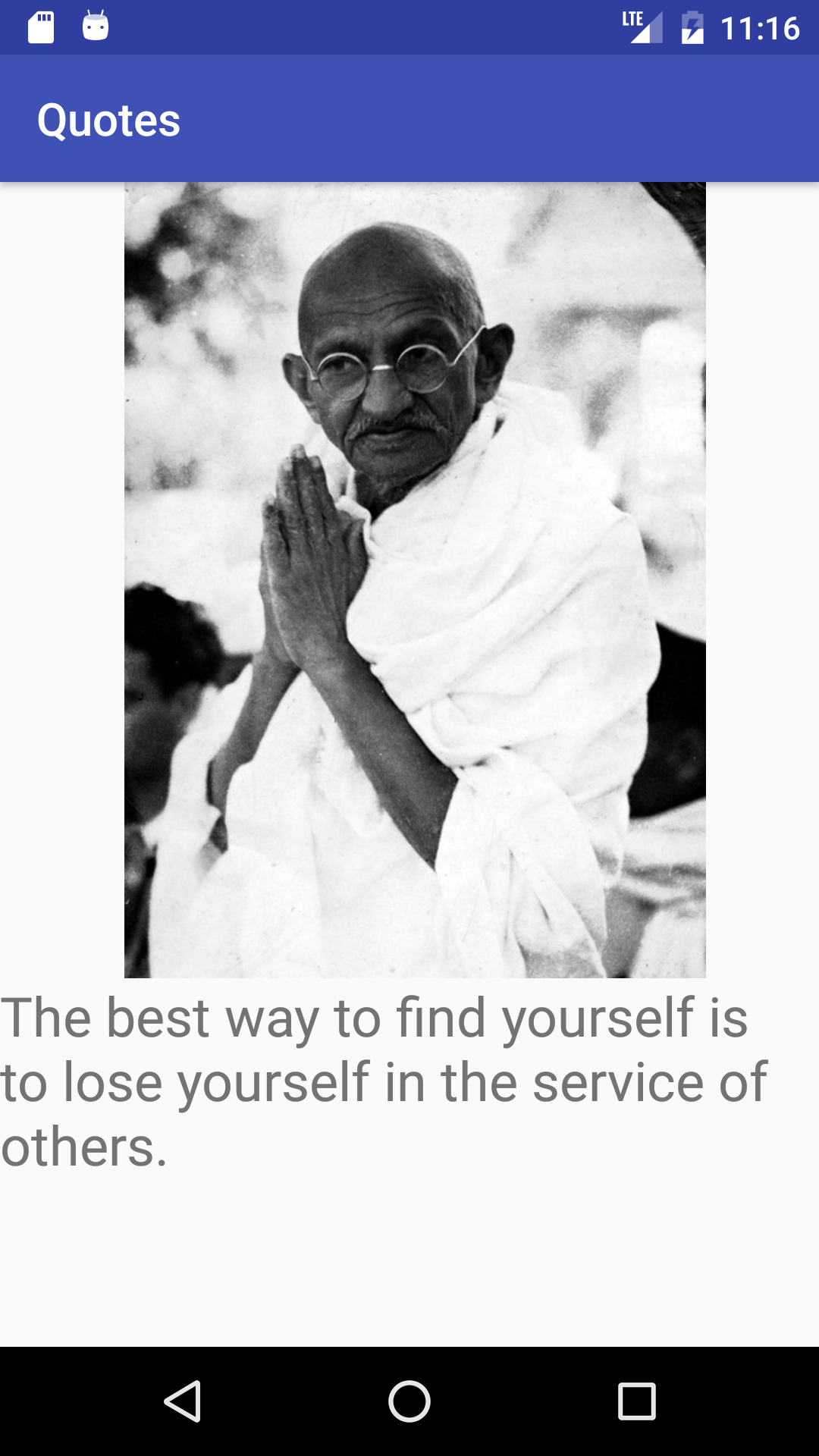
*<?***xml version="1.0" encoding="utf-8"***?>*<**ScrollView xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent" android:layout\_height="match\_parent"**>  
 <**RelativeLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"**>  
  
 <**TextView  
 android:id="@+id/quote"  
 android:layout\_width="fill\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/image"  
 android:textSize="24sp"** />  
  
 <**ImageView  
 android:id="@+id/image"  
 android:layout\_width="fill\_parent"  
 android:layout\_height="350dip"  
 android:layout\_marginLeft="5dip"  
 android:src="@drawable/steve\_1"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentEnd="true"** />  
 </**RelativeLayout**>  
</**ScrollView**>

**strings.xml:**

<**resources**>  
 <**string name="app\_name"**>Quotes</**string**>  
 <**string name="quote\_1"**>Innovation distinguished between a leader and a follower</**string**>  
 <**string name="quote\_2"**>I want to put a ding in the universe!</**string**>  
 <**string name="quote\_3"**>People don\'t know what they want until you show it to them.</**string**>  
 <**string name="quote\_4"**>The only way to be truly satisfied is to do what you believe is great work.</**string**>  
 <**string name="quote\_5"**>That\'s been one of my mantras -- focus and simplicity. Simple can be harder than complex: You have to work hard to get your thinking clean to make it simple. But it\'s worth it in the end because once you get there, you can move mountains.</**string**>  
 <**string name="quote\_6"**>The best way to find yourself is to lose yourself in the service of others.</**string**>  
 <**string name="quote\_7"**>You must not lose faith in humanity.Humanity is an ocean; if a few drops of the ocean are dirty, the ocean does not become dirty.</**string**>  
 <**string name="quote\_8"**>IT+IT=IT; Indian Talent + Information Technology = India Tomorrow.</**string**>  
 <**string name="quote\_9"**>A son of poor man is standing in front of you today. This is the power of democracy.</**string**>  
 <**string name="quote\_10"**>If the body is temple of the mind, yoga creates a beautiful temple. Yoga is a passport to health assurance. Yoga makes individual a better person in thought, action, knowledge and devotion.</**string**>  
</**resources**>

**Snapshots:**

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