Henry Post

ITMD 455

Lab 3: Quotes

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# Lab 3

## DataSource.kt

**package** me.henryfbp.quotes  
  
**import** android.util.Log  
**import** java.util.\*  
  
**class** DataSource {  
  
 **var imageQuotePool**: ArrayList<ImageQuote> = ArrayList()  
  
 **constructor**() {  
  
 Collections.addAll(**imageQuotePool**,  
 ImageQuote(R.drawable.*steve\_1*, R.drawable.*steve\_hd\_1*, R.string.*quote\_1\_sj*),  
 ImageQuote(R.drawable.*steve\_2*, R.drawable.*steve\_hd\_2*, R.string.*quote\_2\_sj*),  
 ImageQuote(R.drawable.*steve\_3*, R.drawable.*steve\_hd\_3*, R.string.*quote\_3\_sj*),  
 ImageQuote(R.drawable.*steve\_4*, R.drawable.*steve\_hd\_4*, R.string.*quote\_4\_sj*),  
 ImageQuote(R.drawable.*steve\_5*, R.drawable.*steve\_hd\_5*, R.string.*quote\_5\_sj*),  
 ImageQuote(R.drawable.*steve\_6*, R.drawable.*steve\_hd\_6*, R.string.*quote\_6\_sj*),  
 ImageQuote(R.drawable.*steve\_7*, R.drawable.*steve\_hd\_7*, R.string.*quote\_7\_sj*),  
 ImageQuote(R.drawable.*steve\_8*, R.drawable.*steve\_hd\_8*, R.string.*quote\_8\_sj*),  
 ImageQuote(R.drawable.*steve\_9*, R.drawable.*steve\_hd\_9*, R.string.*quote\_9\_sj*),  
 ImageQuote(R.drawable.*steve\_10*, R.drawable.*apple\_hd*, R.string.*quote\_10\_sj*),  
  
 ImageQuote(R.drawable.*johnny\_1*, R.drawable.*johnny\_hd\_1*, R.string.*quote\_1\_j*),  
 ImageQuote(R.drawable.*arnold\_1*, R.drawable.*arnold\_hd\_1*, R.string.*quote\_1\_a*),  
 ImageQuote(R.drawable.*brooke\_1*, R.drawable.*brooke\_hd\_1*, R.string.*quote\_1\_bs*),  
 ImageQuote(R.drawable.*dan\_1*, R.drawable.*dan\_hd\_1*, R.string.*quote\_1\_dq*),  
 ImageQuote(R.drawable.*george\_1*, R.drawable.*george\_hd\_1*, R.string.*quote\_1\_gg*)  
 )  
 Log.i(**"test"**, **imageQuotePool**.**size**.toString())  
 }  
  
 **fun** getDataSourceLength(): Int {  
 **return imageQuotePool**.**size** }  
  
  
}

## ImageQuote.kt

**package** me.henryfbp.quotes  
  
**class** ImageQuote(**var image**: Int, **var imageHD**: Int, **var quote**: Int)

## QuoteDetail.kt

**package** me.henryfbp.quotes  
  
**import** android.os.Bundle  
**import** android.support.v7.app.AppCompatActivity  
**import** android.view.View  
**import** android.widget.ImageView  
**import** android.widget.TextView  
  
  
**class** QuoteDetail : AppCompatActivity() {  
 **private lateinit var mImageView**: ImageView  
 **private lateinit var mQuote**: TextView  
 **private lateinit var mPosition**: Integer  
 **private lateinit var mDataSource**: DataSource  
  
 **override fun** onCreate(savedInstanceState: Bundle?) {  
 **super**.onCreate(savedInstanceState)  
 setContentView(R.layout.*quote\_detail*)  
  
 **val** i = *intent* **mPosition** = i.getIntExtra(**"position"**, 0) **as** Integer  
  
 **mDataSource** = DataSource()  
 **mImageView** = findViewById<View>(R.id.*image*) **as** ImageView  
 **mQuote** = findViewById<View>(R.id.*quote*) **as** TextView  
  
 **var** imageQuote: ImageQuote = **mDataSource**.**imageQuotePool**.get(**mPosition**.toInt());  
  
 **mImageView**.setImageResource(imageQuote.**imageHD**)  
  
 **mQuote**.setText(imageQuote.**quote**)  
  
 }  
}

## QuoteReaderActivity.kt

**package** me.henryfbp.quotes  
  
**import** android.content.Context  
**import** android.content.Intent  
**import** android.os.Bundle  
**import** android.support.v7.app.AppCompatActivity  
**import** android.view.LayoutInflater  
**import** android.view.View  
**import** android.view.ViewGroup  
**import** android.widget.AdapterView.OnItemClickListener  
**import** android.widget.BaseAdapter  
**import** android.widget.ImageView  
**import** android.widget.ListView  
**import** android.widget.TextView  
  
  
**class** QuoteReaderActivity : AppCompatActivity() {  
  
 **class** QuoteAdapter() : BaseAdapter() {  
  
 **private lateinit var mContext**: Context  
 **private lateinit var mInflator**: LayoutInflater  
 **private lateinit var mDataSource**: DataSource  
  
 **constructor**(c: Context) : **this**() {  
 **this**.**mContext** = c  
 **this**.**mInflator** = **mContext**.getSystemService(Context.*LAYOUT\_INFLATER\_SERVICE*) **as** LayoutInflater  
 **this**.**mDataSource** = DataSource()  
  
 }  
  
 **override fun** getItem(position: Int): Any {  
 **return** position  
 }  
  
 **override fun** getItemId(position: Int): Long {  
 **return** position.toLong()  
 }  
  
 **override fun** getCount(): Int {  
 **return mDataSource**.getDataSourceLength();  
 }  
  
 **override fun** getView(position: Int, convertView: View?, parent: ViewGroup): View {  
 **var** thumbnail: ImageView  
 **var** quote: TextView  
 **var** convertViewNew: View? = convertView  
  
 **if** (convertViewNew == **null**) {  
 convertViewNew = **mInflator**.inflate(R.layout.*list\_item\_layout*, parent, **false**)  
 }  
  
 **var** imageQuote = **mDataSource**.**imageQuotePool**.get(position)  
  
 thumbnail = convertViewNew!!.findViewById(R.id.*thumb*)  
 thumbnail.setImageResource(imageQuote.**image**)  
  
 quote = convertViewNew.findViewById(R.id.*text*)  
 quote.setText(imageQuote.**quote**)  
  
 **return** convertViewNew!!  
 }  
  
  
 }  
  
 **override fun** onCreate(savedInstanceState: Bundle?) {  
 **super**.onCreate(savedInstanceState)  
 setContentView(R.layout.*activity\_quote\_reader*)  
  
 **var** mListView: ListView = findViewById(R.id.*quotes\_list*)  
 mListView.setAdapter(QuoteAdapter(**this**))  
  
 mListView.*onItemClickListener* = OnItemClickListener **{** adapterView, view, position, long **->  
 val** i = Intent(**this**@QuoteReaderActivity, QuoteDetail::**class**.*java*)  
 i.putExtra(**"position"**, position)  
 startActivity(i)  
 **}** }  
  
  
}