

Lab 3: Quotes

Contents

Lab 3 2

 DataSource.kt 2

 ImageQuote.kt 3

 QuoteDetail.kt 4

 QuoteReaderActivity.kt 5

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 mInflater: LayoutInflater
        private lateinit var mDataSource: DataSource

        constructor(c: Context) : this() {
            this.mContext = c
            this.mInflater = 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 = mInflater.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.setOnItemClickListener { adapterView, view, position, long ->
        val i = Intent(this@QuoteReaderActivity, QuoteDetail::class.java)
        i.putExtra("position", position)
        startActivity(i)
    }

}

}
```