Source Code

The complete source code for this assignment is available on github @
https://github.com/bradyhouse/ITM455.

Screenshot

Startup
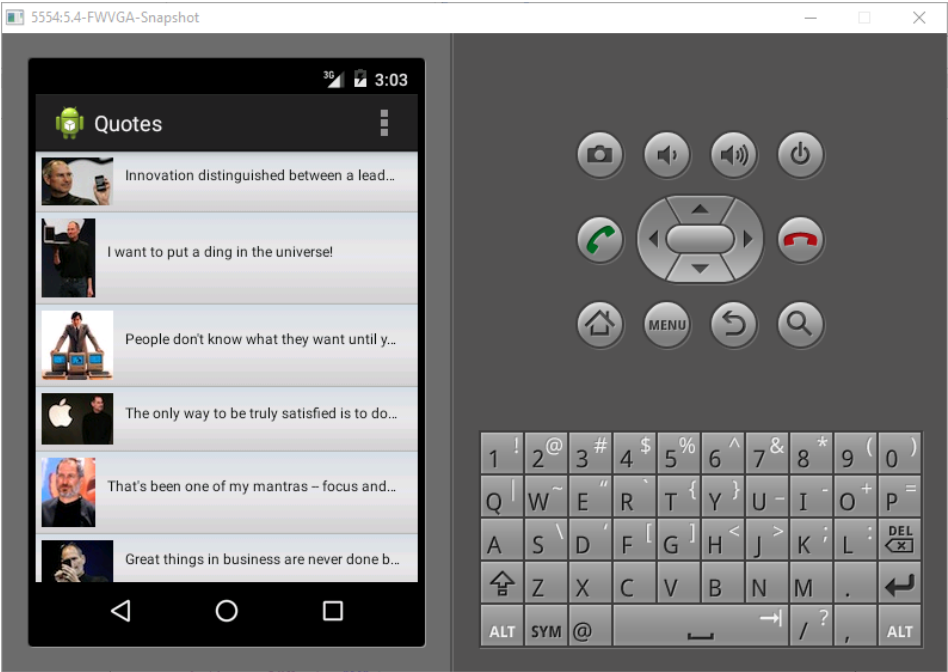
Quote Selection (click)
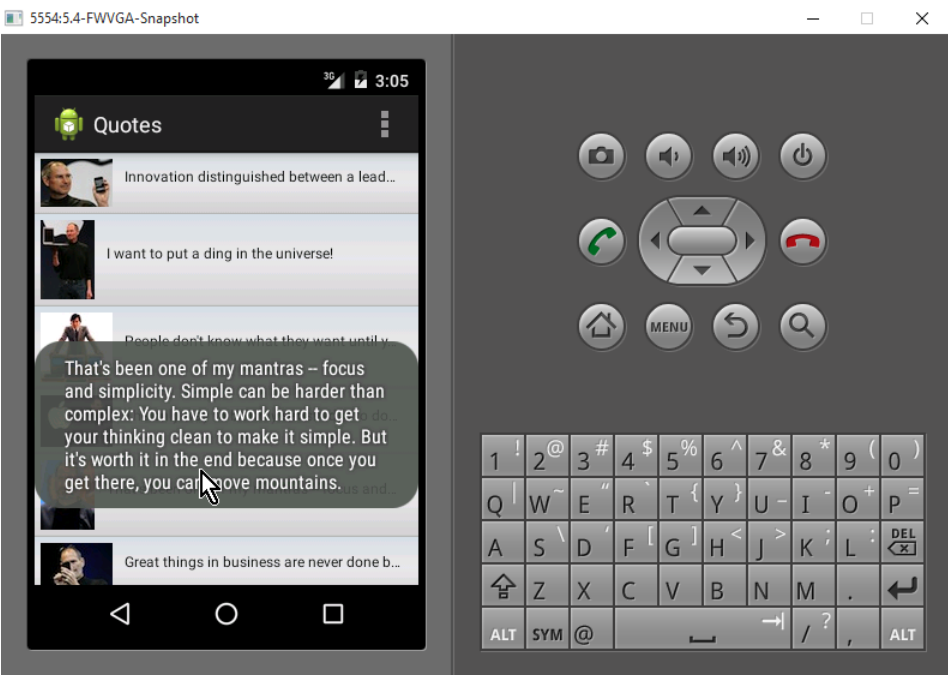
ManifestAndroid.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.iit.itm455.hw3.Quotes"
    android:versionCode="1"
    android:versionName="1.0" >

    <uses-sdk
        android:minSdkVersion="23"
        android:targetSdkVersion="23" />

    <application
        android:allowBackup="true"
        android:icon="@drawable/ic_launcher"
        android:label="@string/app_name"
        android:theme="@style/AppTheme" >
        <activity
            android:name=".MainActivity"
            android:label="@string/app_name" >
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
```

strings.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string name="app_name">Quotes</string>
    <string name="thumbnail_content_description">thumbnail description</string>
    <string name="action_settings">Settings</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">Great things in business are never done by one person,
they\'re done by a team of people.</string>
    <string name="quote_7">You can\'t connect the dots looking forward; you can only
connect them looking backward.</string>
    <string name="quote_8">Your work is going to fill a large part of your life, and
the only way to be truly satisfied is to do what you believe is great work.</string>
    <string name="quote_9">I\'m the only person I know that\'s lost a quarter of a
billion dollars in one year. ... It\'s very character-building.</string>
    <string name="quote_10">It\'s more fun to be a pirate than join the
Navy.</string>
</resources>
```

CustomAdapter Class

```java
package com.iit.itm455.hw3.Quotes;

import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.View.OnClickListener;
import android.view.ViewGroup;
import android.widget.BaseAdapter;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toast;

public class CustomAdapter extends BaseAdapter {
        int[] quoteIds;
        Context context;
        int[] thumbnailIds;
        private static LayoutInflater inflater = null;

        public CustomAdapter(MainActivity mainActivity, int[] quoteList,
                        int[] thumbnailList) {
                this.quoteIds = quoteList;
                this.context = mainActivity;
                this.thumbnailIds = thumbnailList;
                this.inflater = (LayoutInflater) context
                                .getSystemService(Context.LAYOUT_INFLATER_SERVICE);
        }

        @Override
        public int getCount() {
                return this.quoteIds.length;
        }

        @Override
        public Object getItem(int position) {
                return position;
        }

        @Override
        public long getItemId(int position) {
                return position;
        }

        public class Holder {
                TextView quote;
                ImageView thumbnail;
        }

        @Override
        public View getView(final int position, View convertView, ViewGroup parent) {
                Holder holder = new Holder();
                View rowView;
                rowView = inflater.inflate(R.layout.list_row, null);
                holder.quote = (TextView) rowView.findViewById(R.id.quote);
                holder.thumbnail = (ImageView) rowView.findViewById(R.id.Thumbnail);
                holder.quote.setText(this.quoteIds[position]);
                holder.thumbnail.setImageResource(this.thumbnailIds[position]);
                rowView.setOnClickListener(new OnClickListener() {
                        @Override
                        public void onClick(View view) {
                                TextView quote = (TextView) view.findViewById(R.id.quote);
                                Toast.makeText(context, quote.getText(),
                                                Toast.LENGTH_LONG).show();
                        }
                });
                return rowView;
        }

}
```

MainActivity Class

```java
package com.iit.itm455.hw3.Quotes;

import java.io.File;
import java.io.IOException;
import java.io.InputStream;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

import javax.xml.parsers.DocumentBuilder;
import javax.xml.parsers.DocumentBuilderFactory;

import org.w3c.dom.Document;
import org.w3c.dom.Element;
import org.w3c.dom.Node;
import org.w3c.dom.NodeList;

import android.os.Bundle;
import android.app.Activity;
import android.content.Context;
import android.content.Intent;
import android.util.Log;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ListView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.SimpleAdapter;

public class MainActivity extends Activity {

        ListView list;
        Context context;

        public static int[] thumbImages = { R.drawable.steve_1, R.drawable.steve_2,
                        R.drawable.steve_3, R.drawable.steve_4, R.drawable.steve_5,
                        R.drawable.steve_7, R.drawable.steve_8, R.drawable.steve_9,
                        R.drawable.steve_10,
        };

        public static int[] quotes = { R.string.quote_1, R.string.quote_2,
                        R.string.quote_3, R.string.quote_4, R.string.quote_5,
                        R.string.quote_6, R.string.quote_7, R.string.quote_8,
                        R.string.quote_9, R.string.quote_10 };

        @Override
        protected void onCreate(Bundle savedInstanceState) {
                super.onCreate(savedInstanceState);
                setContentView(R.layout.activity_main);
                context = this;
                this.list = (ListView) findViewById(R.id.list);
                list.setAdapter(new CustomAdapter(this, this.quotes, this.thumbImages));
        }

        @Override
        public boolean onCreateOptionsMenu(Menu menu) {
                getMenuInflater().inflate(R.menu.main, menu);
                return true;
        }

        @Override
        public boolean onOptionsItemSelected(MenuItem item) {
                int id = item.getItemId();
                if (id == R.id.action_settings) {
                        return true;
                }
                return super.onOptionsItemSelected(item);
        }
}
```

list_row.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:background="@drawable/list_selector"
    android:orientation="horizontal"
    android:padding="5dip" >

    <!-- Thumbnail -->
    <ImageView
        android:id="@+id/Thumbnail"
        android:contentDescription="@string/thumbnail_content_description"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_centerVertical="true"
        android:src="@drawable/steve_1" />
    <!-- Quote -->
    <TextView
        android:id="@+id/quote"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_toEndOf="@+id/Thumbnail"
        android:layout_centerVertical="true"
        android:paddingBottom ="10dip"
        android:singleLine="true"
        android:ellipsize="end"
        android:paddingLeft="10dip"
        android:paddingRight="10dip"
        android:text="@string/quote_1"
        android:textColor="#040404"
        android:textSize="12sp"
        android:typeface="sans" />

</RelativeLayout>
```

activity_main.xml

```xml
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context="com.iit.itm455.hw3.Quotes.MainActivity" >

    <ListView
      android:id="@+id/list"
      android:layout_width="fill_parent"
      android:layout_height="fill_parent"
      android:divider="#b5b5b5"
      android:dividerHeight="1dp"
      android:listSelector="@drawable/list_selector">
    </ListView>

</RelativeLayout>
```