Quick Start with the Bazaarvoice Android SDK

1. You will need to have a developer API key. http://developer.bazaarvoice.com.

2. Download the SDK (two methods):
   a. *Recommended:* Check out the entire SDK git repository.
   b. Download the bazaarandroidsdk.jar file, but grab the /doc folder as well.

3. Open Eclipse and make a new Android Application Project, call it "BVDisplayExample".
   a.   Eclipse should take you through a Project set up wizard. For the "Configure Launcher Icon" portion of the Android project wizard, just click "Next". Then choose "BlankActivity" and click "Next".
   b.   Now you have a MainActivity with a textView in it. Under res/layout in the package explorer open activity_main.xml, and change the ID of the textView to "mainText" by one of these methods:
   1.   Use the "Graphical Layout" tab, right click on the textView and choose "Edit ID..."
   2.   Use the "activity_main.xml" tab, find the xml tag for the textView and add the property android:id="@+id/ mainText"
   c.   Don't forget to add a permission to use android.permission.INTERNET to the AndroidManifest.xml file.

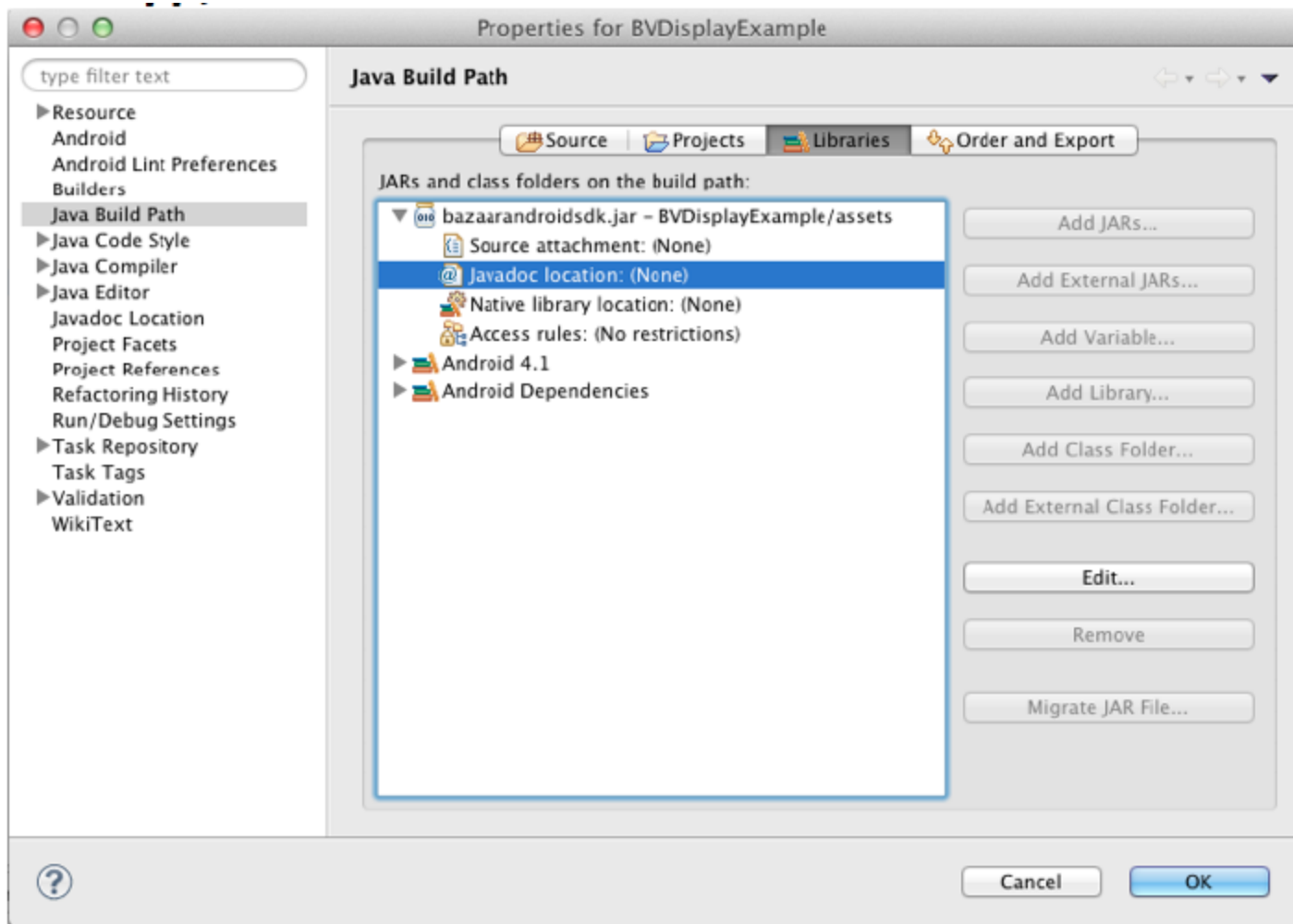4. Import the bazaarandroidsdk.jar library into your project.
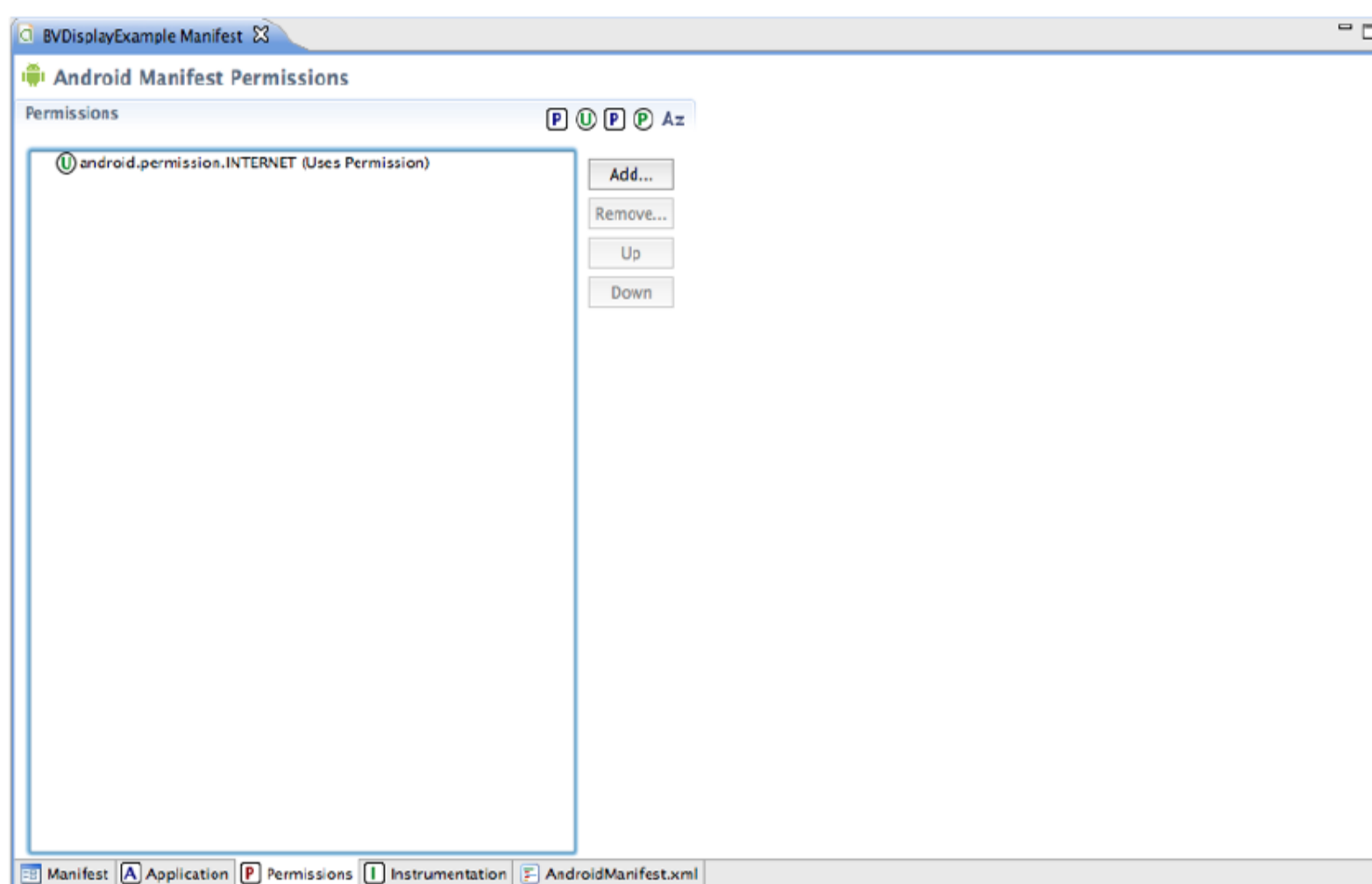
Important: As of ADT r17 the standard way to import .jar files is to place them in a /libs folder in your project's root directory.
       But if you wish to have access to the Javadoc from within Eclipse, you must do something a little different:
   a.   Copy the bazaarandroidsdk.jar file and the /doc folder into the /assets folder in your project root directory.
   b. Right click on the project in the Package Explorer and go to *Build Path > Configure Build Path...*
   c. Under Libraries, click *Add JARs...* and choose the bazaarandroidsdk.jar.
   d. Drill down the new entry in the list, choose "Javadoc location", click *Edit...,* and choose the /doc folder.
   e. Lastly, go to the Order and Export tab and check the box next to bazaarandroidsdk.jar.

This step is very important. If you forget to do this, you will not see any errors until you run your app, but it is necessary in order to to be able to run it.

5. Now that we have the library set up, let's make an example. Open up MainActivity.java.

6. **Important:** If you have not imported bazaarandroidsdk.jar yet, this will not work. In the onCreate()

method create a new BazaarRequest object:

```
BazaarRequest request = new BazaarRequest(<your domain name>, <your API key>, <the API version you are using>);
```

For example:

```
BazaarRequest request = new BazaarRequest("reviews.apitestcustomer.bazaarvoice.com/bvstaging", "xxxxxxxxxxxxxxxx", ApiVersion.FIVE_FOUR);
```

Note: The API version should be specified like "ApiVersion.FIVE_THREE"

7. While still inside the onCreate() method, add some parameters to your request:

```
DisplayParams params = new DisplayParams(); params.addFilter("CategoryId",
Equality.EQUAL, "testCategory1022");
```

Note: This assumes you are using the apitestcustomer API.

8. Next, set the MainActivity to implement the OnBazaarResponse interface:

```
public class MainActivity extends Activity implements OnBazaarResponse {
```

9. The last bit of code in our onCreate() method is to tie it together and send of the request:

```
request.sendDisplayRequest(RequestType.PRODUCTS, params, this);
```

10. Add a variable to your MainActivity for the mainText

```
TextView mainText;
```

Then assign it inside your onCreate() method:

```
mainText = (TextView) findViewById(R.id.mainText);
```

Your onCreate method should now look like this:

```
TextView mainText;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    mainText = (TextView) findViewById(R.id.mainText);

    BazaarRequest request = new BazaarRequest("reviews.apitestcustomer.bazaarvoice.com/bvstaging", "xxxxxxxxxxxxxxxx", ApiVersion.FIVE_FOUR);
    DisplayParams params = new DisplayParams();
    params.addFilter("CategoryId", Equality.EQUAL, "testCategory1022");
```

```
                request.sendDisplayRequest(RequestType.PRODUCTS, params, this);
    }
```

11. Next, we add define a callback inside our MainActivity class to handle the response:

```
        @Override
        public void onResponse(JSONObject json) {
        final JSONObject myJson = json;
        this.runOnUiThread(new Runnable() {
                        @Override
                        public void run() {
                                try {
                                        if (myJson.getBoolean("HasErrors")) {
                                                mainText.setText("JSON response has errors");
                                        } else {
                                                mainText.setText(myJson.toString());
                                        }
                                } catch (JSONException exception) {
                                        Log.e("BVDisplayExample", "Error = " + exception.getMessage() + "\n");
                                        exception.printStackTrace();
                                }
                        }
                });
        }

        @Override
        public void onException(String message, Throwable exception) {
                Log.e("BVDisplayExample", "Error = " + message + "\n");
                exception.printStackTrace();
        }
```

Note: If you get formatting errors from copying and pasting, simply press Ctrl+Shift+F to format the file you are viewing.

Also: If you are getting errors on @Override at this point, make sure your compiler is set to Java 1.6 not 1.5.
Click on the project in the Package Explorer, then go to Preferences -> Java Compiler -> Compiler Compliance Level to check.

Your whole MainActivity class should now look like this (note, your package will be whatever you choose during the project setup:

```
package com.example.bvdisplayexample;

import org.json.JSONException;
import org.json.JSONObject;

import android.app.Activity;
import android.os.Bundle;
import android.util.Log;
import android.view.Menu;
import android.widget.TextView;

import com.bazaarvoice.BazaarRequest;
import com.bazaarvoice.DisplayParams;
import com.bazaarvoice.OnBazaarResponse;
import com.bazaarvoice.types.ApiVersion;
import com.bazaarvoice.types.Equality;
import com.bazaarvoice.types.RequestType;

public class MainActivity extends Activity implements OnBazaarResponse {

        TextView mainText;

        @Override
        protected void onCreate(Bundle savedInstanceState) {
                super.onCreate(savedInstanceState);
                setContentView(R.layout.activity_main);
                mainText = (TextView) findViewById(R.id.mainText);

                BazaarRequest request = new BazaarRequest("reviews.apitestcustomer.bazaarvoice.com/bvstaging", "xxxxxxxxxxxxxxx", ApiVersion.FIVE_FOUR);
                DisplayParams params = new DisplayParams();
                params.addFilter("CategoryId", Equality.EQUAL, "testCategory1022");

                request.sendDisplayRequest(RequestType.PRODUCTS, params, this);
        }


        @Override
        public boolean onCreateOptionsMenu(Menu menu) {
                // Inflate the menu; this adds items to the action bar if it is present.
                getMenuInflater().inflate(R.menu.main, menu);
                return true;
        }

        @Override
        public void onResponse(JSONObject json) {
                final JSONObject myJson = json;
                this.runOnUiThread(new Runnable() {
```

```java
        @Override
        public void run() {
                try {
                        if (myJson.getBoolean("HasErrors")) {
                                mainText.setText("JSON response has errors");
                        } else {
                                mainText.setText(myJson.toString());
                        }
                } catch (JSONException exception) {
                        Log.e("BVDisplayExample", "Error = " + exception.getMessage() + "\n");
                        exception.printStackTrace();
                }
        }
    });
}

    @Override
    public void onException(String message, Throwable exception) {
            Log.e("BVDisplayExample", "Error = " + message + "\n");
            exception.printStackTrace();
    }

}
```
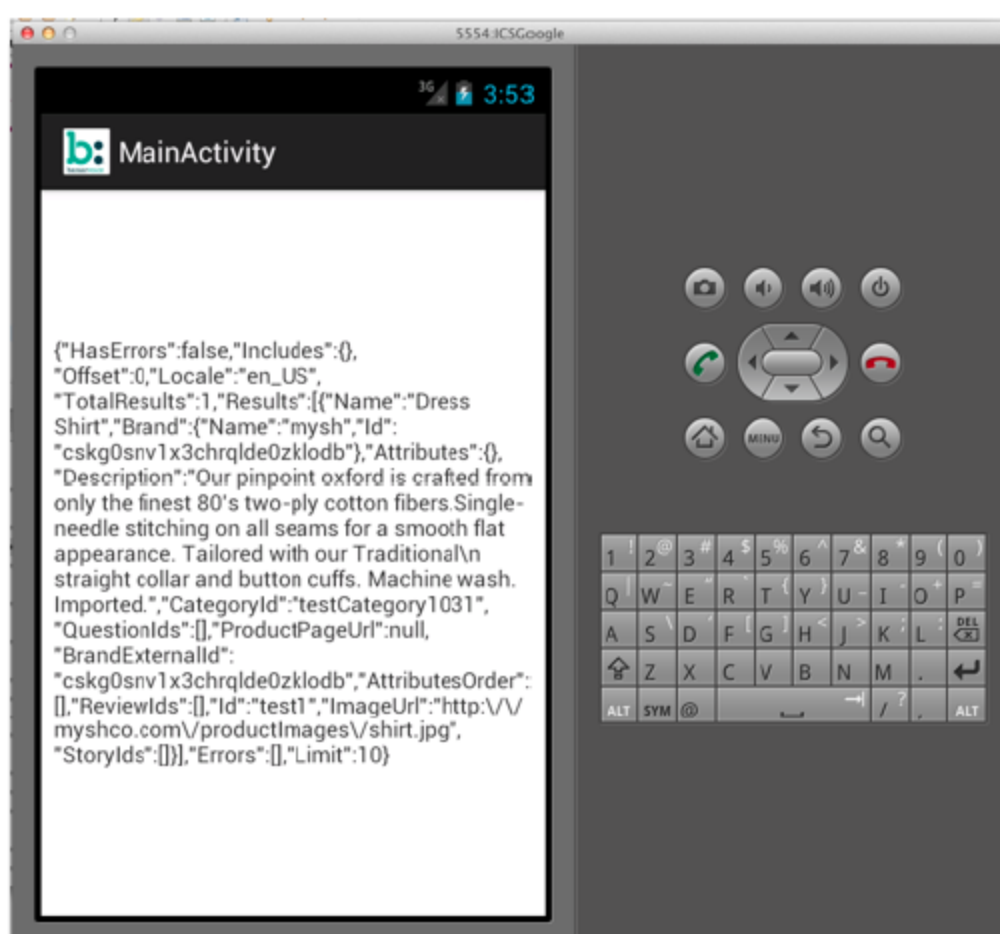
12. Congratulations, you've made your first app with the Bazaarvoice SDK. Go ahead and run it and see the result. It should look like this:

If things aren't working correctly, check the LogCat to see if any errors were displayed. To enable LogCat, go to Window > Show View > Other... and choose LogCat from the list. If you are still unsure of what is going wrong, find the request string in LogCat and copy and paste it into a browser to check that you get a valid response.

13. For further examples, check out the /Apps folder in the git repository.