Quick Start demonstration

The purpose of this demonstration is to make you experience an end-to-end flow where IBM MobileFirst Platform Foundation SDK for Android is integrated into an Android project and used to retrieve data by using a MobileFirst adapter.

To learn more about creating projects and applications, using adapters and lots more, visit the Native Android Development (../) landing page.

Prerequisite: Make sure that you have installed the following software:

- MobileFirst Platform command line tool (download (file:////home/travis/build/MFPSamples/DevCenter/_site/downloads))
- Android Studio

1. Create a MobileFirst back-end project and adapter.

Create a back-end project in a location of your choice.

```
mfp create MyProject
cd MyProject
```

Add an HTTP adapter to the project.

```
mfp add adapter MyAdapter -t http
```

2. Deploy artifacts to the MobileFirst Server.

Start the MobileFirst Server and deploy the adapter.

```
mfp start
mfp push
```

3. Create an Android project in Android Studio.

4. Add the MobileFirst Android SDK to the Android Studio project

- In Project > Gradle scripts, select build.gradle (Module: app).
- After apply plugin: 'com.android.application', add the following line:

```
1 repositories {
2  jcenter()
3 }
```

o Inside android, add the following lines:

```
packagingOptions {
pickFirst 'META-INF/ASL2.0'
pickFirst 'META-INF/LICENSE'
pickFirst 'META-INF/NOTICE'
}
```

• Inside dependencies, add the following lines:

```
compile group: 'com.ibm.mobile.foundation',
name: 'ibmmobilefirstplatformfoundation',
version: '7.1.0.0',
ext: 'aar',
transitive: true
```

• Add the following permissions to the AndroidManifest.xml file:

Add the MobileFirst UI activity:

```
1 <activity android:name="com.worklight.wlclient.ui.UIActivity" />
```

• In Terminal, navigate to the root of the Android Studio project and add the required configuration files by running this command:

```
1 mfp push
```

Implement MobileFirst adapter invocation.

■ Main Activity class

Make sure that your MainActivity class extends the Activity class:

```
public class MainActivity extends Activity {
...
```

Add the following import statements:

```
import com.worklight.wlclient.api.*;
import android.util.Log;
import java.net.URI;
import java.net.URISyntaxException;
```

Add the following lines to the onCreate method:

```
1
     super.onCreate(savedInstanceState);
2
     setContentView(R.layout.activity_main);
3
     final WLClient client = WLClient.createInstance(this);
4
     client.connect(new WLResponseListener() {
5
       @Override
       public void onSuccess(WLResponse wlResponse) {
6
7
          URI adapterPath = null;
8
           adapterPath = new URI("/adapters/MyAdapter/getFeed");
9
10
         } catch (URISyntaxException e) {
           e.printStackTrace();
11
12
         }
13
         WLResourceRequest request = new WLResourceRequest(adapterPath, WLRes
14
          request.send(new MyInvokeListener());
       }
15
16
       @Override
17
       public void onFailure(WLFailResponse wlFailResponse) {
          Log.i("MFPMyProject", "Failed connecting to the MobileFirst Server: " + wIFailRe
18
19
       }
20
     });
                                                                                   F
```

MyInvokeListener class

Add a new MyInvokeListener class. Add the following import statements:

```
1 import com.worklight.wlclient.api.*;
2 import android.util.Log;
```

Paste the following lines:

```
1
     public class MylnvokeListener implements WLResponseListener {
2
       @Override
       public void onSuccess(WLResponse wlResponse) {
3
4
         Log.i("MFPMyProject","Adapter invocation response: " + wlResponse.getRespo
5
       }
       @Override
6
7
       public void onFailure(WLFailResponse wlFailResponse) {
8
         Log.i("MFPMyProject", "Adapter invocation response: " + wlFailResponse.getEr
9
       }
10
    }
```

Final configurations

Create an Android Virtual Device (AVD).

Click Run.

Review the LogCat view for the data retrieved by the adapter request.

