Android Quick Start demonstration

Overview

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

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

Required installed:

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

Create a MobileFirst project and adapter

o Create a new project and Android framework/server-side application entity

```
mfp create MyProject
cd MyProject
mfp add api MyAndroidFramework -e android
```

Add a 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 server-side application entity and adapter

3. Create an Android project

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

 From project-folder-location > MyProject > apps > MyAndroidFramework, copy the following files: worklight-android.jar, uicandroid.jar, bcprov.jar and androidasync-http.jar

- Open the Project view and navigate to the app\libs folder. Paste the copied files
- o Right-click on any of the added . jar files and select Add as library to add all libraries
- Create an **assets** folder under **src\main** and paste into it the wlclient.properties file
- Add the following permissions to the AndroidManifest.xml file:

• Add the MobileFirst UI activity in the AndroidManifest.xml file:

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

5. Implement MobileFirst adapter invocation

• Main Activity class Add imports:

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

Add the following to onCreate:

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

• MyInvokeListener class Add a new MyInvokeListener class Add imports:

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

Paste the following:

```
public class MylnvokeListener implements WLResponseListener {
 1
 2
       @Override
 3
 4
       public void onSuccess(WLResponse wlResponse) {
 5
         Log.i("MFPMyProject","Adapter invocation response: " + wIResponse.getResponseJS(
 6
       }
 7
 8
       @Override
 9
       public void on Failure (WLFailResponse wlFailResponse) {
10
          Log.i("MFPMyProject", "Adapter invocation response: " + wIFailResponse.getErrorMsg
11
       }
12
     }
                                                                                        М
```

6. Final configurations

- Supply the machine's IP address for the host property in wlclient.properties
- o Create an AVD

7. Click Run

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

