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:

```
repositories {
    jcenter()
}
```

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:
     <uses-permission android:name="android.permission.INTERNET"/>
     <uses-permission android:name="android.permission.ACCESS_WIFI_STATE"/>
     <uses-permission android:name="android.permission.GET_TASKS" />

    Add the MobileFirst UI activity:

     <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:
     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:

```
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
final WLClient client = WLClient.createInstance(this);
client.connect(new WLResponseListener() {
  @Override
  public void onSuccess(WLResponse wlResponse) {
    URI adapterPath = null;
      adapterPath = new URI("/adapters/MyAdapter/getFeed");
    } catch (URISyntaxException e) {
      e.printStackTrace();
    WLResourceRequest request = new WLResourceRequest(adapterPath,WL
ResourceRequest.GET);
    request.send(new MyInvokeListener());
  @Override
  public void onFailure(WLFailResponse wlFailResponse) {
    Log.i("MFPMyProject", "Failed connecting to the MobileFirst Server: " + wlFail
Response.getErrorMsg());
  }
});
```

MyInvokeListener class

```
Add a new MyInvokeListener class.

Add the following import statements:
```

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

Paste the following lines:

```
public class MyInvokeListener implements WLResponseListener {
    @Override
    public void onSuccess(WLResponse wlResponse) {
        Log.i("MFPMyProject","Adapter invocation response: " + wlResponse.getRes
    ponseJSON());
    }
    @Override
    public void onFailure(WLFailResponse wlFailResponse) {
        Log.i("MFPMyProject", "Adapter invocation response: " + wlFailResponse.ge
    tErrorMsg());
    }
}
```

Final configurations

Create an Android Virtual Device (AVD).

· Click Run.

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

