Android - Using native pages

Overview

In this tutorial, integration of native and web "pages" in an Android application will be explained by using the WL.NativePage.show() API to open a native page from JavaScript. With this method, data can be sent from JavaScript to the opened native page, and specify a callback to call after the native page closes.

Connecting to the plugin from the JavaScript code

As a first step, WL.NativePage.show() needs to be implemented in order to open the native page:

```
function openNativePage(){
  var params = {
    nameParam : $('#nameInput').val()
  };
  WL.NativePage.show(nativePageClassName, backFromNativePage, params)
;
}
```

- nativePageClassName: The name of a native Android Activity to start.
- backFromNativePage: A callback function to call when the native page closes.
- params: optional custom parameters object to pass to the native code.

To handle the callback function:

```
function backFromNativePage(data){
  alert("Received phone number is: " + data.phoneNumber);
}
```

backFromNativePage(data): After the native closes, it can pass data back to the web part of an application.

Creating a native page

In Android, the native page must be implemented as an Android Activity, or extend an existing Activity. **Step 1** As with any Activity, it must be declared in the AndroidManifest.xml file. For example:

```
<activity android:name=".HelloNative"/><activity>
```

Step 2 To retrieve custom data parameters that are passed from the web view, an intent should be used:

```
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
String name = getIntent().getStringExtra("nameParam");
```

Returning control to the web view

When the native page switches back to the web view, the finish() function is called for the Activity. To pass data back to the web view can be done by using an Intent object. For example: **Java:**

```
String phoneNumber = editText.getText().toString();
Intent phoneNumberInfo = new Intent();
phoneNumberInfo.putExtra("phoneNumber", phoneNumber);
setResult(RESULT_OK, phoneNumberInfo);
finish();
```

JavaScript:

```
function backFromNativePage(data){
   alert("Received phone number is: " + data.phoneNumber)
;
}
```

Sample application

Click to download

(http://public.dhe.ibm.com/software/products/en/MobileFirstPlatform/docs/v630/UsingNativePagesInHybridAppsProject.zip) the Studio project.

