

Windows Phone 8 - Using native pages

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Overview

This tutorial explains how to create and integrate native and web "pages" in a Windows Phone 8 application by using the `WL.NativePage.show()` API to open a native page from JavaScript.

With this method, you can have data sent from JavaScript to the open native page and specify a callback to be called after the native page closes.

This tutorial covers the following topics:

- Connecting to the plugin from the JavaScript code
- Creating a native page
- Returning control to the web view
- Sample application

Connecting to the plugin from the JavaScript code

1. Implement the `WL.NativePage.show()` to open the native page.

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

- `nativePageClassName`: The name of a native WP8 class to start.
- `backFromNativePage`: A callback function to call when the native page closes.
- `params`: An optional custom parameters object to pass to the native code.

2. To handle the callback function:

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

The `backFromNativePage(data)` parameter can pass data back to the web part of an application after the native closes.

Creating a native page

For Windows Phone 8, implement the native page as a Windows Phone User Control, or extend an existing one.

Step 1

In the new User Control, add `using Cordova.Extension.Commands;` to the `.cs` file, and use the same package and class name as in the `WL.NativePage` API call in the JavaScript:

```

using Cordova.Extension.Commands;
using Newtonsoft.Json;
namespace NativePagesInHybridApp {
    public partial class HelloNative : UserControl
    {

```

Step 2

To retrieve custom data parameters that are passed from the web view, use the `WLNativePage.Data: (NSDictionary*)data` method.

In the example below, the data is sent as a JSON string. For this purpose, the external `JSON.NET` library is used to convert the incoming JSON string to a native dictionary. For more information, see the `JSON.NET` (<http://json.codeplex.com/>) page.

```

InitializeComponent();
if (WLNativePage.Data != null) {
    Dictionary<string, string> data = JsonConvert.DeserializeObject<Dictionary<string, string>>(WLNativePage.Data);
    NameReceivedTextBlock.Text = "Hello " + data["nameParam"];
    tb_returnValue.Text = "1234567890";
}

```

Returning control to the web view

When the native page needs to switch back to the web view, it calls the `WLNativePage.backFromNative` method. Data can be passed back to the web view as parameters to the call.

Objective-C

```

void DoneButton_Click(object sender, RoutedEventArgs e) {
    Dictionary<string, string> data = new Dictionary<string, string> {
        { "phoneNumber", tb_returnValue.Text }
    };
    string json = JsonConvert.SerializeObject(data, Formatting.Indented
);
    WLNativePage.backFromNative(this, json);
}
}
}

```

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/v700/UsingNativePagesInHybridAppsProject.zip>)
the Studio project.

