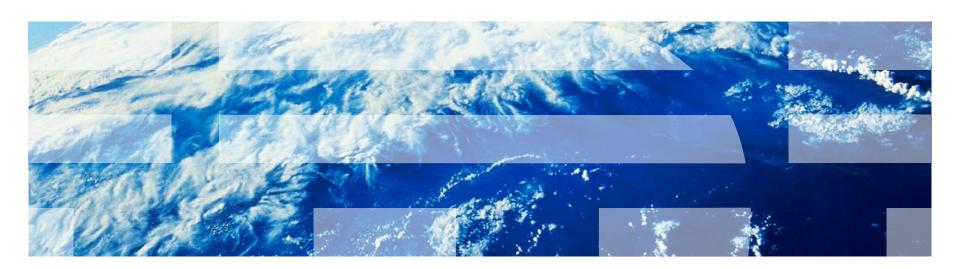


IBM Worklight Foundation V6.2.0 Getting Started

iOS - Using native pages in hybrid applications





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



Overview

- This module explains how to combine native and web pages in an iOS application.
- Use the WL.NativePage.show() API to open a native page from JavaScript™.
- With this method, you can send data from JavaScript to the open native page, and specify a callback to call after the native page closes.



- Overview
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— Use the WL.NativePage.show() API to start a native page.

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

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

The name of a native iOS
UIViewController instance to start



Use the WL.NativePage.show() API to start a native page.

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

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

A callback function to call when the native page closes



Use the WL.NativePage.show() API to start a native page.

```
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}

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

You can pass custom parameters object to the native code.



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}
```

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

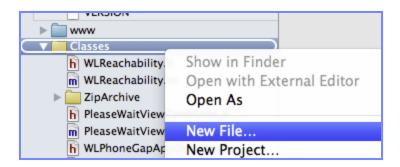


- Combining native and web
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Creating a native page

• Add a file to your Classes folder in Xcode.



Make sure to subclass the UIViewController.





Creating a native page – continued

Important:

- If you work with existing .m and .h files, make sure to place these files in the Classes folder in the Xcode project.
- If you place the .m and .h files only in the iphone\native\Classes folder in Eclipse, these files will not be referenced in the Xcode project.



Creating a native page – continued

- Import HelloNative.h to your class.
- You can retrieve custom data parameters that are passed from the web view by using the setDataFromWebView: (NSDictionary*) data method.

JavaScript code

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

```
- (void) setDataFromWebView: (NSDictionary*) data{
    self.nameParam = (NSString*) [data valueForKey:@"nameParam"];
}
```



- Combining native and web
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Returning control to the web view

- When the native page switches back to the web view, a [NativePage showWebView:] method should be called.
- You can pass data back to the web view by using the NSDictionary object.

Native code

JavaScript code

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



- Combining native and web
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Exercise

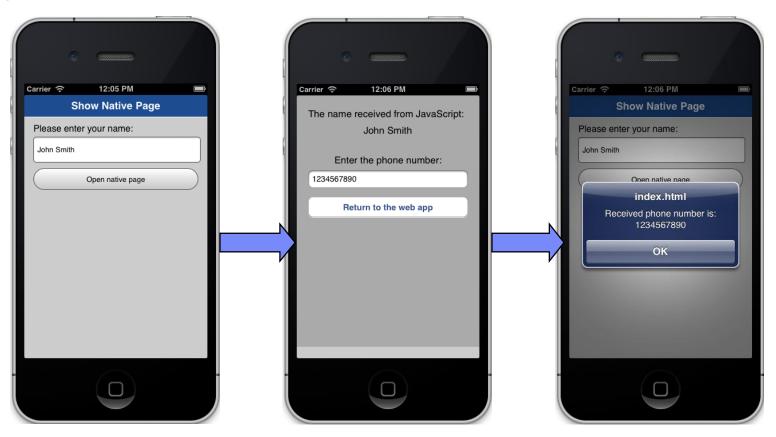
- Create an application that behaves as follows:
 - A web page that contains a button opens.
 - When you tap the button, a native page is displayed, with text received from the web page.
 - The native page also contains a button.
 - When you tap the native button, the native page closes, and the web page is displayed.
 - An alert that contains the text from the native page is displayed.



Exercise: Solution

 The sample for this training module can be found on the Getting Started page of the IBM Worklight documentation website at

http://www.ibm.com/mobile-docs





Quiz

Test your knowledge of the material in this module. Answers are in the following slide.

- What are the steps to create a native page?
 - Create a new Objective C class, subclass the UIViewController.
 - Create a new Objective C class, subclass the UINativePage.
 - Create a new Objective C class, make it a partial class of the application main ViewController.
 - Add UI layout to the existing ViewController.
- Is it possible to transfer data between web and native page?
 - Web to native no, native to web no.
 - Web to native yes, native to web no.
 - Web to native no, native to web yes.
 - Web to native yes, native to web yes.



Quiz - answers

- What are the steps to create a native page?
 - Create a new Objective C class, subclass the UIViewController.
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 - Web to native no, native to web no.
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