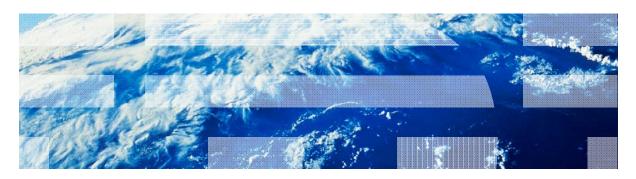


# IBM Worklight V5.0.6 Getting Started

#### iOS - Using native pages in hybrid applications





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- Overview
- Web portion of the code
- Create a native page
- Returning control to the web view
- Exercise



#### **Overview**

- This training modules explains how to combine native and web pages on an iOS application
- The WL.NativePage.show() API allows to open a native page from JavaScript™
- This method allows to send data from JavaScript to opened native page and specify callback to be invoked once native page has closed



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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('HelloNative', backFromNativePage, params);
}
function backFromNativePage(
    alert("Received phone num
}
is: " + data.phoneNumber);
}
```

The name of a native iOS
UIViewController instance to be started



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

```
function openNativePage(){
    var params = {nameParam : $('#nameInput').val()};
    WL.NativePage.show('HelloNative', backFromNativePage, params)
function backFromNativePage(data){
    alert("Received phone number is: " + data.ph
                                                     lumber);
                                              A callback
                                             function to be
                                             invoked when
                                            the native page
                                              has finished
```



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

```
function openNativePage(){
    var params = {nameParam : $('#nameInput').val()};
    WL.NativePage.show('HelloNative', backFromNativePage, params);
}
function backFromNativePage(data){
    alert("Received phone number is: " + data.phoneNumber);
}
```

Custom parameters object can be passed to the native code



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

```
function openNativePage(){
    var params = {nameParam : $('#nameInput').val()};
    WL.NativePage.show('HelloNative', backFromNativePage, params)
function backFromNativePage(data){
    alert("Received phone
                           mber is: " + data.phoneNumber);
                   Once the native
                   page finishes, it
                    can pass data
                   back to the web
                      part of an
                     application
```



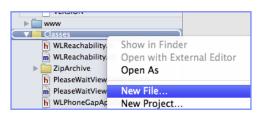
- Combining native and web
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# Create a native page

Add a new file to your Classes folder in Xcode.



Make sure to subclass the UIViewController.





# Create a native page

- Import NativePage.h to your class.
- Custom data parameters passed from the web view can be retrieved by using the setDataFromWebView:(NSDictionary\*)data method.

#### JavaScript code

```
function openNativePage(){
      var params = {nameParam : $('#nameInput').val()};
      WL.NativePage.show('HelloNative', backFromNativePage, params);
                          Native code
-(void)setDataFromWebView:(NSDictionary*)data{
```



- Combining native and web
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# Returning control to the web view

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

#### **Native code**

```
-(IBAction)returnClicked:(id)sender{
    NSString *phone = [phoneNumber text];
    NSDictionary *returnedData = [NSDictionary dictionaryWithObject:phone forKey:@"phoneNumber"];
    [NativePage showWebView:returnedData];
}

Javascript code

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



- Combining native and web
- Web portion of the code
- Create the native page
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- Exercise



#### **Exercise**

- Create an application that behaves as follows:
  - Opens a web page that contains a button.
  - When the button is clicked, a native page is displayed with text received from the web page.
  - The native page also contains a button.
  - When the native button is clicked, the native page is closed and the web page is displayed.
  - An alert containing text from the native page is displayed.



#### **Exercise: Solution**

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

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





# Check yourself questions

- What are the steps of creating 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 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.



# Check yourself questions

- What are the steps of creating a native page?
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