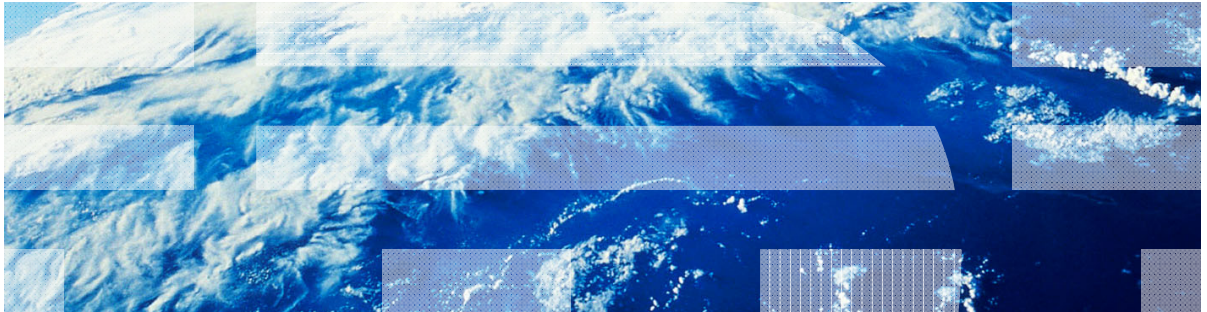


IBM Worklight V5.0.5 ***Getting Started***

Module 7.6 – Combining Native and Web Pages



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Agenda

- Combining native and web
- How does it work?
- Implementation

Limitations of web technologies

- You can do a lot with web technologies only
- Apache Cordova provides greater flexibility, allowing JavaScript access to native phone features
- However, there are still cases where web technologies are not enough
- For example:
 - Augmented reality
 - Barcode scanner
 - Opening a native contacts page



Combining native and web

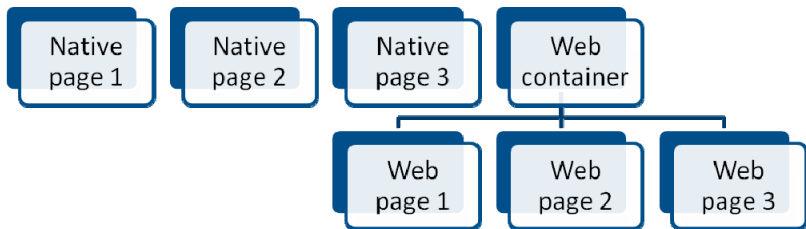
- Worklight® provides ways to augment your web application with native pages
- By using Worklight hybrid coding, you can perform the following functions:
 - Navigate freely between web and native pages
 - Share data between pages
 - Share a single server session
 - Implement your own functions by creating Apache Cordova plugins
- Adding native pages to your web application is available out-of-the box for iOS and Android platforms

Agenda

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How does it work?

- A developer writes one or more native pages
- A developer writes one or more web pages
- The Worklight web API allows navigation to native pages and back including the passing of data back and forth
- IBM Worklight provides a native API to communicate with the Worklight Server from the native page
- Cookies are shared between web and native, allowing seamless client-server integration



Native page API

- JavaScript API to active native page

```
WL.NativePage.show(className, callback, data);
```

- The web page invokes the native class `className`, with the parameter `data` and calls the callback function on return
- Example:

```
WL.NativePage.show( "com.demo.NativePage",  
                    function(data) {  
                        demoApplication.returnFromNative (data)  
                    },  
                    {  
                        inputData : "Hello"  
                    }  
);
```


Animating the transitions

- It is possible to animate page transitions
- For more information, see the IBM Worklight Information Center

Agenda

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Implementation

- The implementation of iOS native pages is described in Module 8.1.
- The implementation of Android native pages is described in Module 9.1.

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