Building iOS Applications in Java

Johannes Häyry
Developer at Vaadin
johannesh@vaadin.com

vaadin }>

Native
(the Apple Way)

- iOS SDK, xCode, Objective-C
- Mac Only

For Different People

- Use C# and MonoTouch
- JIT disabled CLR running on iOS
- Mac only

Web

- For the browser use HTML + CSS + JavaScript
- For development tools and backend what ever you like

Hybrid

- Take your HTML5 app and wrap it into a binary
  - Use familiar web technologies and utilize platform SDK
  - PhoneGap

Native apps, but why

- Develop a native app, only if you really need something, that is available only through the device libraries

Forget native apps!

- App store policies
- Apple’s 30% slice
- No SEO
- Forking the whole code base
- Mobile apps are just as capable

A very common situation.
Users have to remember to feed the Update Beast!

Power in modern browsers

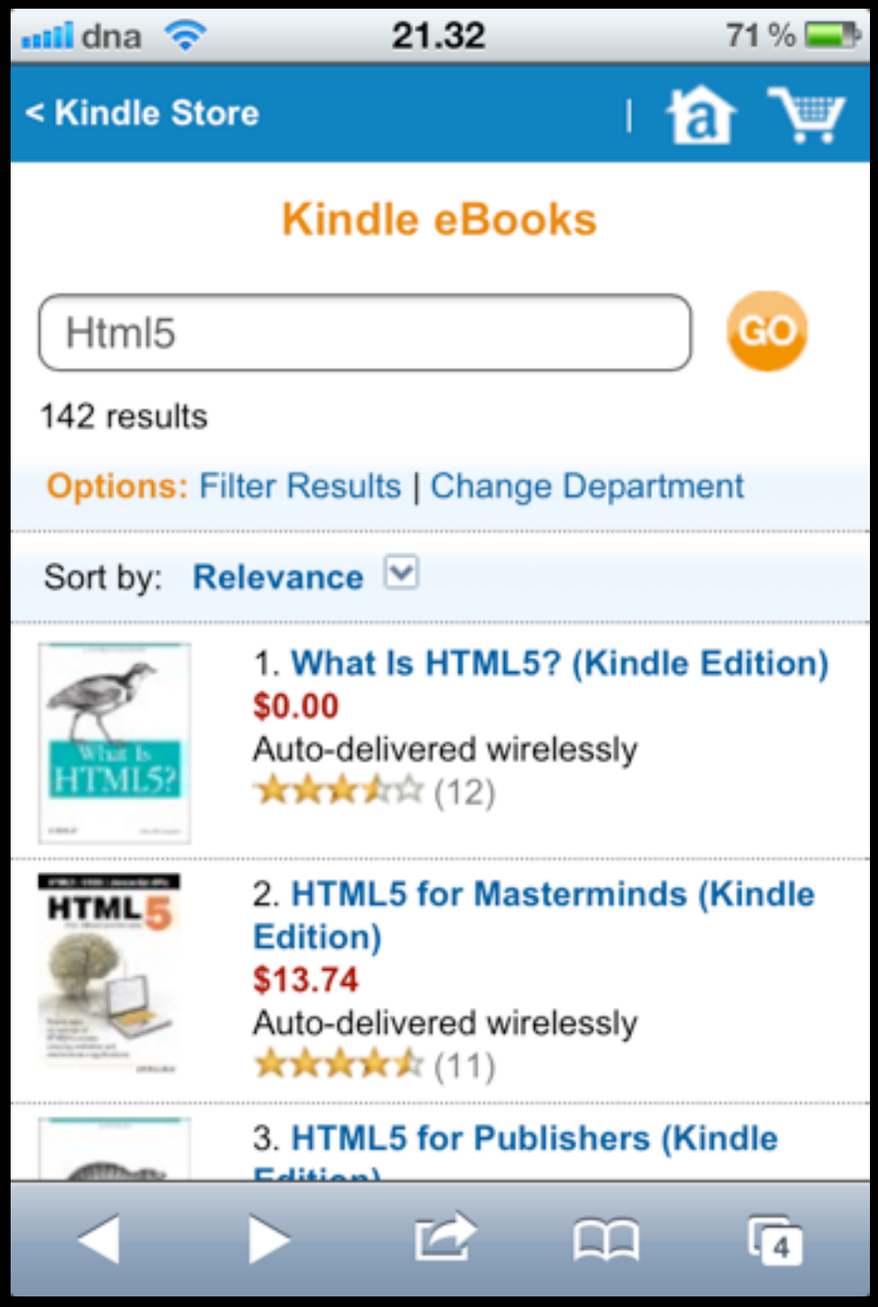
- Modern versions of old technologies push the boundaries.
- Browser plugins are dead
- On mobile devices the luckily didn’t even fly far

"Because you don't just browse a scaled-down, mobile version of the web. You see a web page the way it was meant to be seen."

- Apple

Your users deserve more!

A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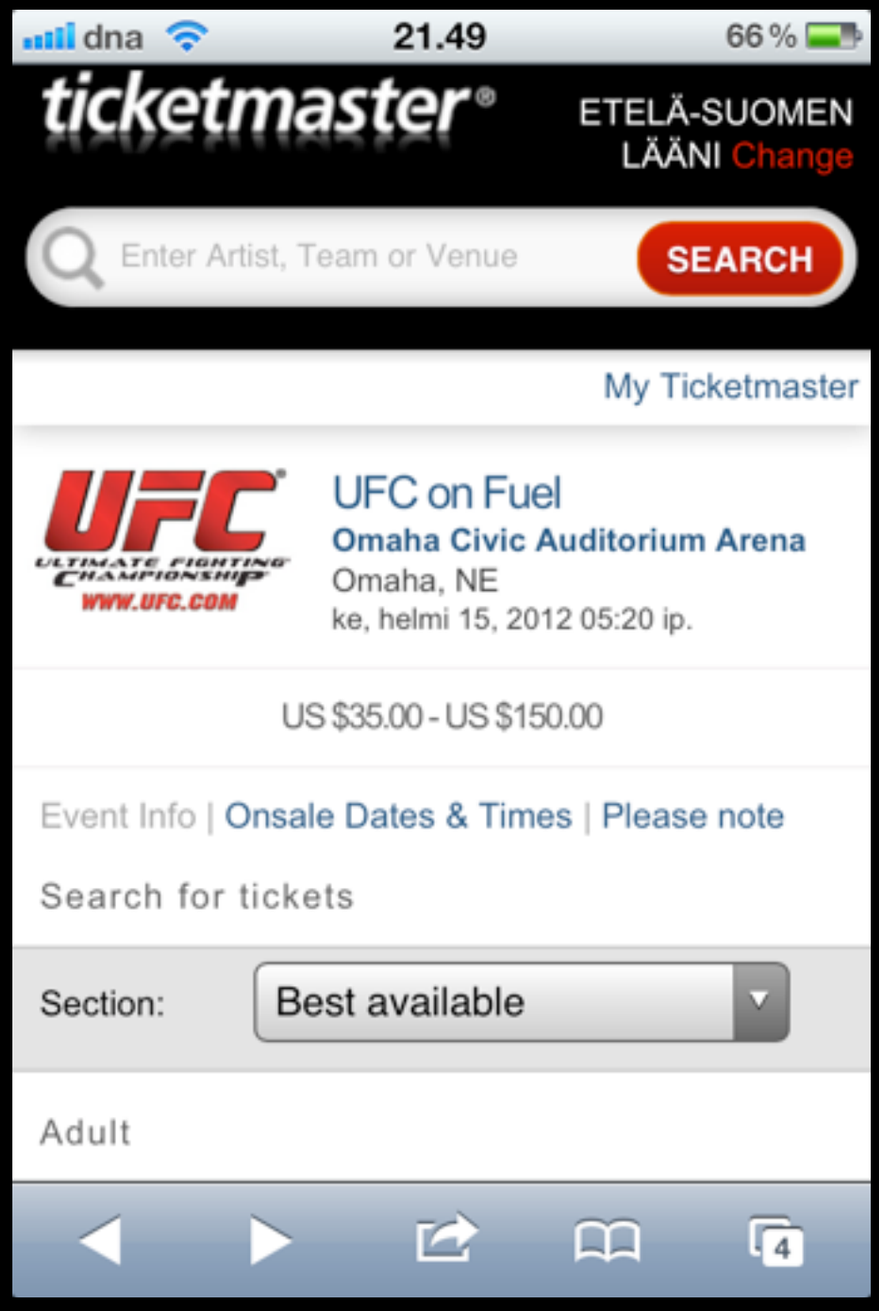
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Two Different Approaches

Vaadin TouchKit

jQuery Mobile

Vaadin (TouchKit)

- Components

```
VerticalLayout myLayout = new VerticalLayout();
InlineDateField dateField = new InlineDateField();
dateField.setCaption("Departure");
dateField.setResolution(InlineDateField.RESOLUTION_DAY);
myLayout.addComponent(dateField);
```

Vaadin (TouchKit)

- Events and listeners

```
Button button = new Button("Click Here", new Button.ClickListener() {

    public void buttonClick(ClickEvent event) {

    }
});
```

Vaadin (TouchKit)

- Data binding

```
Select select = new Select();
select.addItem("Apple");
select.addItem("Banana");
select.addItem("Orange");

Label label = new Label();
label.setPropertyDataSource(select);
```

jQuery Mobile

- Navigation is in terms of pages. Smooth transition effects are used. Page can be preloaded to DOM or fetched automatically via Ajax.

jQuery Mobile

- Uses heavily data-role attributes in elements and provides a lot of css classes to create cool looking controls

DEMO

iOS Safari

TouchKit Theming

Google Web Toolkit

Vaadin client-side engine and widgets

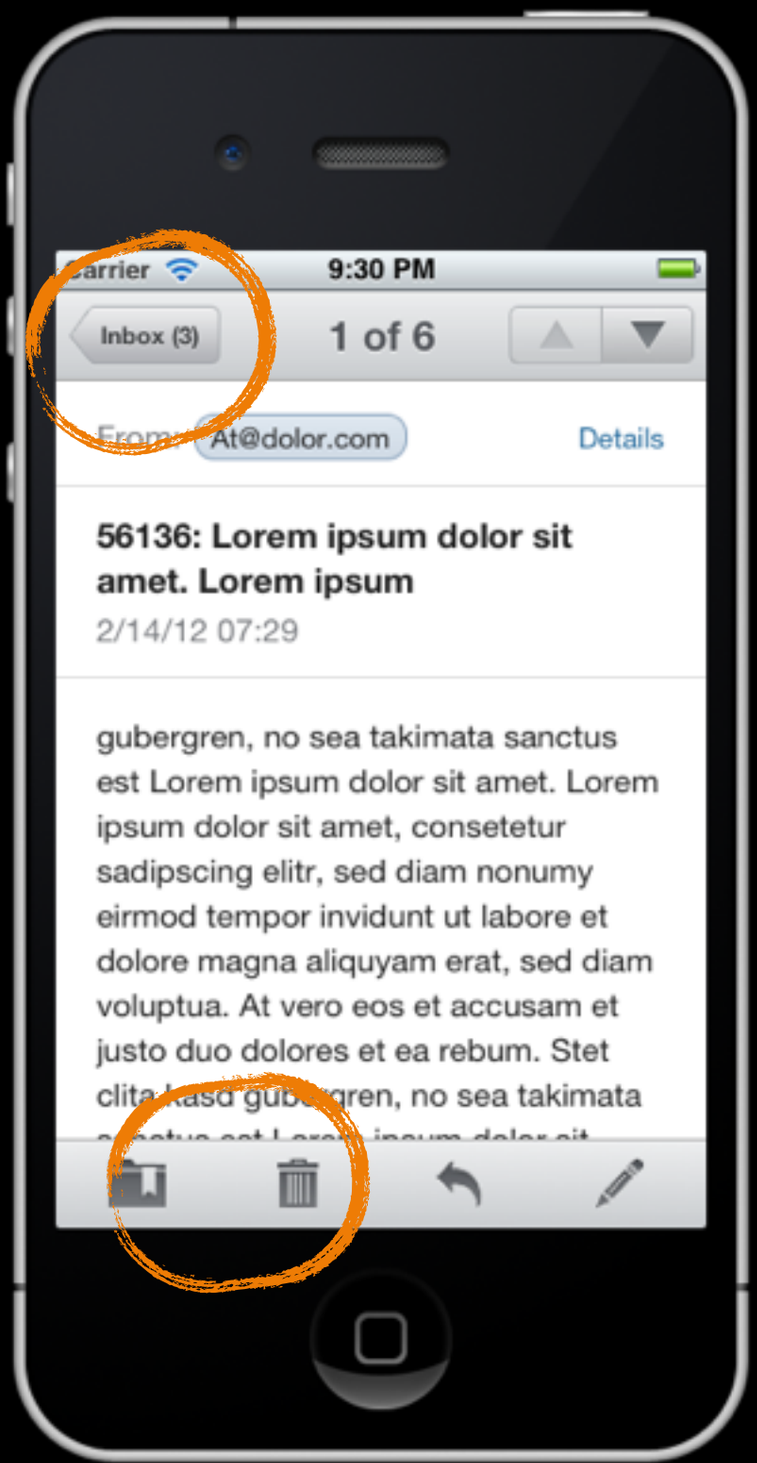
Java Server

Servlet

Vaadin server side engine and components

Your User Interface (100% Java or any JVM language)

Business logic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Birds
Anseriformes
Waterbird
Grouse
Phasianidae
Gaviiformes
Loon
Podicipedidae
Birds
Observations
Map
Settings

For iOS browser

```
<meta name="viewport"
      content="width=device-width,
               user-scalable=no, initial-scale=1.0,
               maximum-scale=1.0, minimum-scale=1.0">
<meta name="apple-mobile-web-app-capable" content="yes">
<link rel="apple-touch-icon"
      sizes="57x57"
      href="/app/VAADIN/themes/jfokus/icon/icon.png">
<link rel="apple-touch-icon"
      sizes="114x114"
      href="/app/VAADIN/themes/jfokus/icon/icon@x2.png">
```

Client-side RIA

Browser

View

Controller

Model

Local Store

Server

Service

Data Access

Server-side RIA

GWT

vaadin

vaadin

View

Controller

Model

Data Access

Datastore

Vaadin TouchKit

Your UI code is Java

No XML, HTML or JavaScript

Debugging Java code only and using your favorite Java tools increases productivity

Vaadin TouchKit

Less scalable
(although very scalable)

Requires connection, no
offline support

Vaadin TouchKit

Inherently more secure

Great community and professional support

jQuery Mobile

JavaScript is a powerful language and jQuery is extensive

JavaScript is not so easy
and has its pitfalls

jQuery Mobile

Good performance

Good browser support

MIT or GPL2 licenses

Great community

It boils down to your preferences and skill set

Extending your existing Java web application with touch UI using Vaadin TouchKit is extremely easy

Develop your iOS app as a web app, and you'll be happier in the end.

Thank you!

johannesh@vaadin.com