Developing Rich Internet Applications with JBoss RichFaces and Eclipse

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About Me

• Max Katz
• Senior Systems Engineer at Exadel
• http://mkblog.exadel.com
• JSF/RichFaces mentoring, training, and consulting
• Overseeing RIA strategy and direction
What’s the Plan

1. JSF.................................................................
2. JBoss RichFaces...............................................  
3. JBoss Tools/JBoss Developer Studio............. 
4. Examples.............................................................. 
5. Exadel Flamingo and more.............................

What Is JSF?

Open source, server-side user interface component framework for Java-based web applications

User interface is created out of UI components

The standard technology for building Web applications in a Java EE 5 stack
JSF Component Tree

Development

JSF Page

Output

HTML

Browser

We want…

Web 2.0

RIA

AJAX
Rich Internet Applications with AJAX

AJAX – technique for building browser-based RIA applications
Richer, faster, and more interactive

Basic Idea:
Update only part of a page

The Challenge

AJAX (JavaScript, DHTML, XML, XMLHttpRequest, DOM) development is challenging

Up to 80% of development is spent on battling browser incompatibilities

And, finally, manual AJAX development doesn’t fit the JSF component model
**JBoss RichFaces**

70+ out-of-the-box rich JSF components  
2 tag libraries (a4j:, rich:)

Components with **built-in AJAX support**

Add AJAX support to any standard JSF components

**Skinability** (themes)

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**a4j: tag library**

- **a4j:commandButton**  
  Name: [JSF:days]  
  Value: [JSF:hello]

- **a4j:commandLink**  
  Name: [JSF:days]  
  Value: [JSF:hello]

- **a4j:push**

- **a4j:status**  
  Loading...

- **a4j:poll**  
  Server Date: Fri Feb 29 13:01:29 PST 2008

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**Add AJAX support to any standard JSF controls**

**Send AJAX request from JavaScript code**

**Add AJAX support to any standard JSF controls**

**Send AJAX request from JavaScript code**
New Components in RichFaces version 3.2

- `rich:progressBar`
- `rich:fileUpload`
- `rich:sortableHeader` - for a table
- `rich:comboBox`
- `rich:inplaceEditor`
- `rich:dataTable` - dynamic columns
RichFaces book will be available in May 2008.

JBoss Tools/ JBoss Developer Studio

- Eclipse 3.3, WTP 2.0
- Visual and source page editor
- Visual and source tools for JSF, RichFaces, Seam and Hibernate
- UI Components palette
- EL code assist for JSF managed beans, Seam components
- JBoss jBPM, Spring, JBoss AS tools
Example

Let’s now build an example.
JBoss Seam and Adobe Flex

Today Seam is designed to work with JSF to deliver purely browser-based RIA applications. The browser (HTML) alone, however, has its limitations.

Flex

Organizations today are increasingly using Adobe Flex to build RIA applications. Flex applications run inside the Flash virtual player (browser plug-in), enabling much richer applications. The problem: no simple way today to use Seam and Flex together.
Exadel Flamingo

Exadel Flamingo makes building Flex RIA applications with Seam as easy as with JSF/RichFaces

http://flamingo.exadel.com

Soon:
JavaFX-Seam

AjaxWorld Article

Enterprise Rich Internet Applications Tools - JSF, Flex, and JavaFX

http://tinyurl.com/24v94l
Exadel dVision

• Real-time access to enterprise data for business users

http://dvision.exadel.com

RichFaces

Come and talk to me about RichFaces and your RIA plans.
Exadel Web 2.0 Stack

JSF/RichFaces  Flex  JavaFX  GWT (Google)

Seam/Spring/POJO, Business services

Persistence (Hibernate, JPA, EJB3)

How We Can Help

Customized Software Development, Maintenance and Enhancements

Web 2.0 Highly interactive and collaborative Rich Internet Applications

World experts in SOA and Web Services helping in transition to Service Oriented Enterprise

Open Source Professional Services, Support, and Training
Web Sites

**RichFaces Components Demo**
http://livedemo.exadel.com/richfaces-demo

**RichFaces Project Page**
http://labs.jboss.com/jbossrichfaces

**JBoss Tools**
http://labs.jboss.com/tools/

**Exadel Flamingo**
http://flamingo.exadel.com

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Thank You!

To learn more, please contact me:

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Questions?