

**The Apache Cocoon Project**

<http://cocoon.apache.org/>

**Cocoon GetTogether, Amsterdam  
4th October 2006**

# Devware

**Bringing Cocoon-related technologies to  
the development environment**





## About the speaker

**Gustavo Nalle Fernandes**  
**([gustavo@summa-tech.com](mailto:gustavo@summa-tech.com))**

- Mechanical Engineer
- Software Architect @ Summa Technologies
- Several articles published about Java (including Cocoon) and .NET
- Cocoon user since 2001
- Co-author of devware
- Lives and works at São Paulo, Brazil



# What is devware?

- A development environment virtual appliance
- Off-the-shelf already installed and configured bunch of tools
- Mainly Java and Open Source tools
- Fits in a DVD (900 Mb compressed)



## Why devware?

- Every project has the same needs: version control, issue tracking, documentation, etc
- Installing and configuring all those tools are a time consuming task
- Moving from one machine to another (or between OS) requires full reinstalation
- There is no integration path or best practices around those tools



## Devware advantages

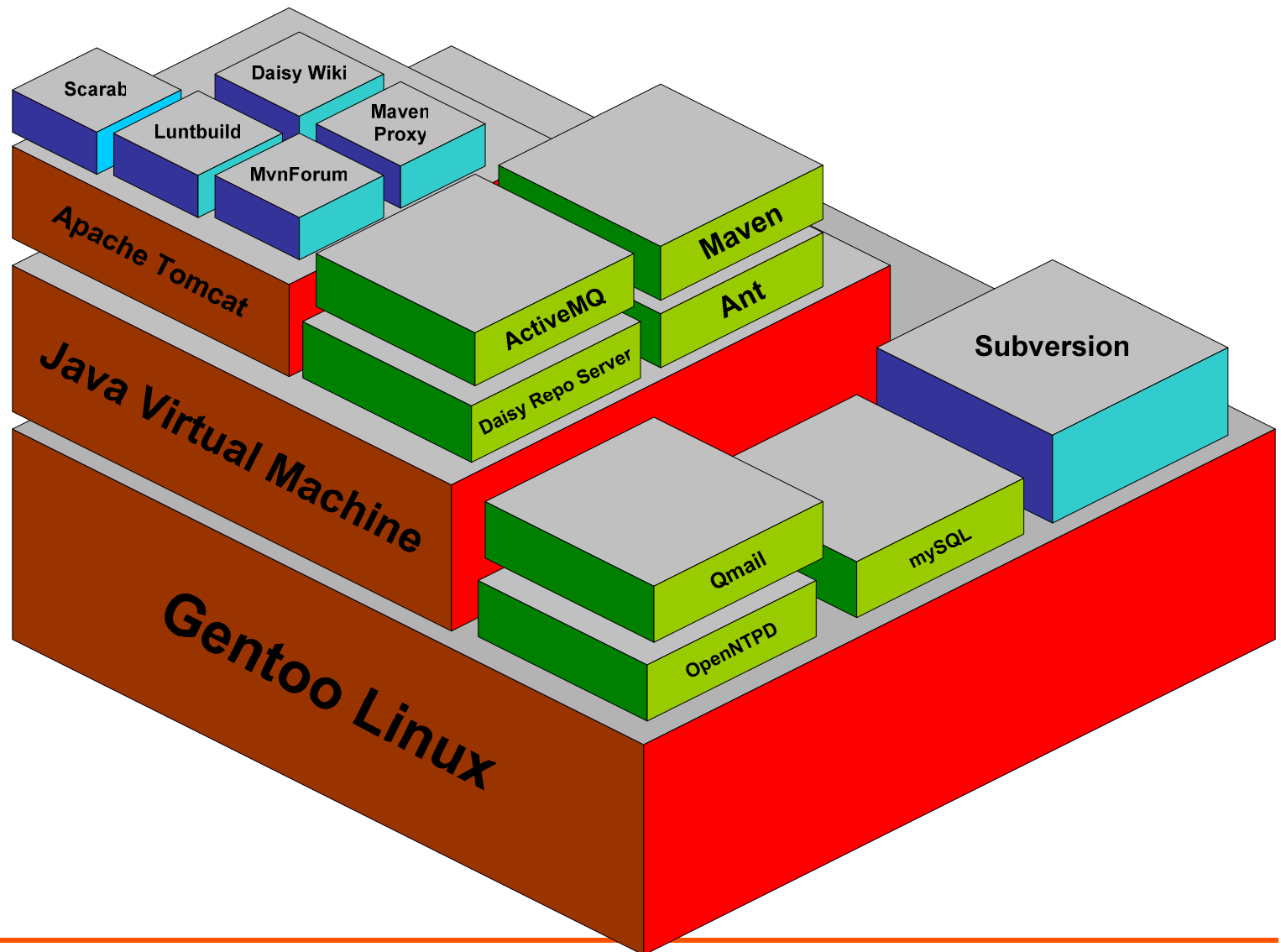
- Runs on every machine, even shared ones
- Tools fully functional
- Sample project provided
- Little or no configuration required
- Easy to backup (1 file)
- Easy to move to other machines (just copy one file)
- Snapshots provides save points



## Devware requirements

- VMware server – free
- Windows, Linux or Solaris as a host
- 512 MB RAM minimum (configurable)
- 4 Gb disk space to start, maximum space depends on projects contents

# Devware tools



October, 4th, 2006

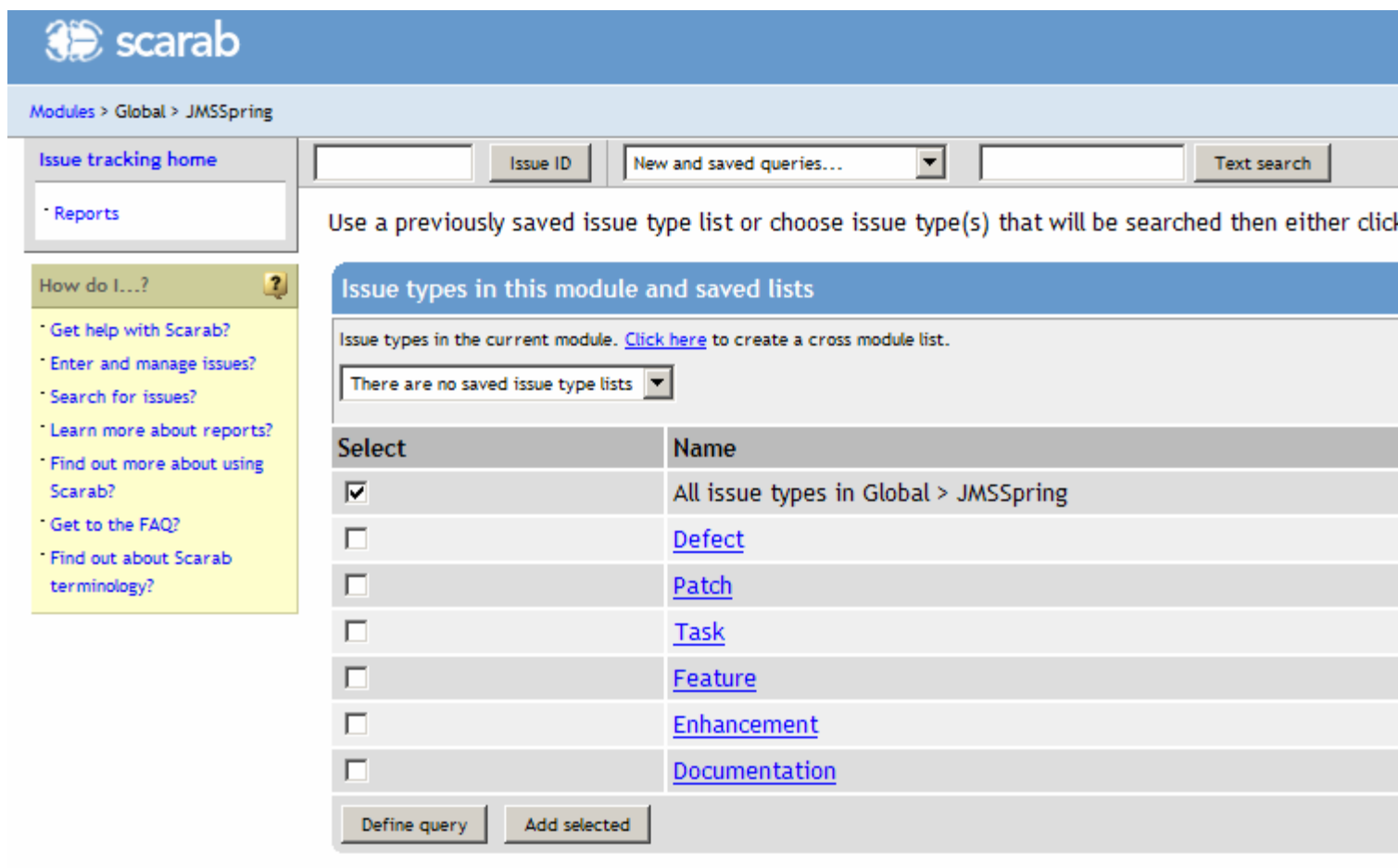


## Devware other tools

- ViewVC – SVN Repository browsing
- Java Wrapper – Java VM Laucher
- SSHD – Remote access and file transfer via SSH
- Ajp13 – Apache and tomcat integration (already configured)



# Devware tools - Issue Tracking



The screenshot shows the Scarab issue tracking web application. The header includes the Scarab logo and the breadcrumb path: Modules > Global > JMSSpring. Below the header, there is a navigation menu with 'Issue tracking home' and 'Reports'. A search bar contains an 'Issue ID' field, a dropdown for 'New and saved queries...', and a 'Text search' button. A help section titled 'How do I...?' lists various user guides. The main content area is titled 'Issue types in this module and saved lists' and contains a message: 'Issue types in the current module. [Click here](#) to create a cross module list.' Below this is a dropdown menu showing 'There are no saved issue type lists'. A table lists available issue types with checkboxes for selection.

Select	Name
<input checked="" type="checkbox"/>	All issue types in Global > JMSSpring
<input type="checkbox"/>	<a href="#">Defect</a>
<input type="checkbox"/>	<a href="#">Patch</a>
<input type="checkbox"/>	<a href="#">Task</a>
<input type="checkbox"/>	<a href="#">Feature</a>
<input type="checkbox"/>	<a href="#">Enhancement</a>
<input type="checkbox"/>	<a href="#">Documentation</a>

Buttons at the bottom of the table: Define query, Add selected

© 2001-2005 [CollabNet](#) | [Scarab](#) 1.0-b20-200604162006



# Devware tools - Build Automation

**LUNTBUILD** 1.3.2

Home REFRESH IS OFF system log [logout](#)

**Builds** Projects Users Properties Administration [luntbuild]

1 builds found Page 1/1 |<<<>>>|

project	schedule	Version	status	finish date	minutes used
JMSSpring	Manual	build-2006Jul312052	success	2006-07-31 20:53	0

Powered by Luntbuild - [Help us](#)



# Devware tools - Forum



Welcome Guest | [Login](#)

[Index](#) | [Recent Threads](#) | [Who's Online](#) | [User List](#) | [Register](#) | [Search](#) | [Help](#) | [XML](#)

mvnForum » [List all forums](#) » [Forum: JMSSpring](#) » [Thread: Spring 2.0](#)

Quick Go »

Thread Status: Normal

**Total posts in this thread: 4**

[\[Add To My Favorites\]](#) [\[Watch this Thread\]](#) [\[Post new Thread\]](#)

Author	This topic has been viewed 12 times and has 3 replies	
<a href="#">gustavo</a> Stranger  Joined: <b>Jul 29, 2006</b> Posts: <b>1</b> Status: Offline	<b>Spring 2.0</b>  Spring 2.0 will have support for Message Driven POJOS. What is the best choice, Jencks ou MDP?  Gustavo  [Jul 29, 2006 1:27:19 PM]   Profile  PM  Mail	<a href="#">Reply to this Post</a> <a href="#">Reply with Quote</a>
<a href="#">Admin</a> Stranger	<b>Re: Spring 2.0</b>	<a href="#">Reply to this Post</a> <a href="#">Reply with Quote</a>



# Devware tools - Maven Proxy

maven-proxy Unversioned

[CONFIG](#) [SEARCH](#) [REPOSITORY](#) [ADMIN](#)

## Browsing /

Size (bytes)	Last Modified	Name	Repository
		<a href="#">antlr/</a>	Global Repository
		<a href="#">asm/</a>	Global Repository
		<a href="#">cglib/</a>	Global Repository
		<a href="#">commons-codec/</a>	Global Repository
		<a href="#">commons-collections/</a>	Global Repository
		<a href="#">commons-lang/</a>	Global Repository
		<a href="#">commons-logging/</a>	Global Repository
		<a href="#">dom4j/</a>	Global Repository
		<a href="#">ehcache/</a>	Global Repository
		<a href="#">log4j/</a>	Global Repository
		<a href="#">org/</a>	Global Repository
		<a href="#">oro/</a>	Global Repository



# Devware tools - Version Control

- Subversion
- Apache Integrated (authentication and access)
- Scarab Integrated (commits appears on issues as comments)

The screenshot displays the Scarab issue tracking interface. At the top, the 'scarab' logo is visible. Below it, the breadcrumb navigation shows 'Modules > Global > JMSSpring > Issue JMS5: (XA example)'. The main interface includes a search bar with 'Issue ID' and 'Text search' fields, and a navigation bar with 'Attributes', '0 Personnel', '1 Comments', '0 Dependencies', '0 Attachments/ 0 URLs', and 'History'. The 'Comments' section shows a comment from 'Fulano deTal' dated 'Aug 7, 2006 8:29:42 PM GMT'. The comment text reads: 'Subversion commit 55: <http://192.168.0.103/cgi-bin/viewvc.cgi/?view=rev&rev=55>  
-----  
[JMS5](#)  
-----  
Modified: trunk/mdbspring/build.xml  
<http://192.168.0.103/cgi-bin/viewvc.cgi/trunk/mdbspring/build.xml?view=diff&rev=55&p1=trunk/mdbsp>

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# Project Portal - Daisy



[Daisy Home](#) | [Site Home](#)

User: guest Tools Recent Changes Page Actions Variants (1)

- SIENA home
- ▼ JMSSpring
  - ▶ RDF Feeds
  - Introduction**
  - ▶ Architecture
  - Downloads
  - Maven
  - Version Control
  - Discussion Forum
  - Issue Tracking

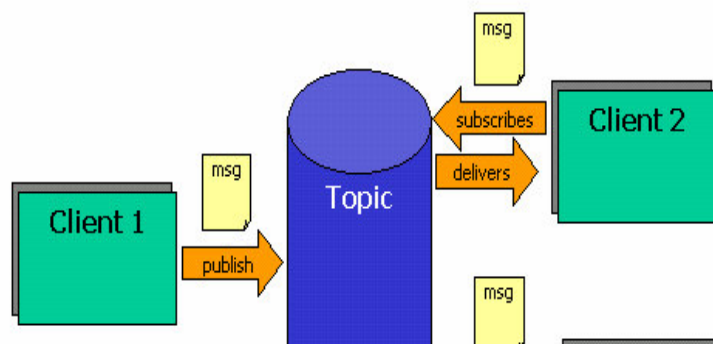
## Introduction

### Project JMSSpring

This sample project illustrate integration between Spring and JMS.

#### Java Message Service

The Java Message Service (JMS), which is designed by Sun Microsystems and several other companies under the Java Community Process as [JSR 914](#), is the first enterprise messaging API that has received wide industry support. The Java Message Service (JMS) was designed to make it easy to develop business applications that asynchronously send and receive business data and events.





# Why Daisy as a project documentation manager?

- PDF Generation
- Search integrated
- Branchs
- Graphical diff
- Custom doctypes
- Access Control
- Book generation
- Watch mechanism
- Extensible thru cocoon pipelines



# Daisy - PDF Generation

User: guest Tools Recent Changes Page Actions Variants (2)

- Document Info
- Versions
- Referrers
- Hide navigation
- PDF
- Add to basket

ENA home  
JMSSpring  
▶ RDF Feeds  
Ajax sample  
**Introduction**  
▶ Architecture  
Downloads  
Maven  
Version Control

## Intro

## Project

This sample project illustrate integration between Spring and J

### Java Message Service

The Java Message Service (JMS), which is designed by Sun Mi as [JSR 914](#) is the first enterprise messaging API that has rece





# Daisy - Integrated Search



[Daisy Home](#) | [Site Home](#)

User: guest Tools Recent Changes

## Fulltext Search

Fulltext query:  \* ?

Maximum results:  \*

Search in:  Current site's collection  All documents \*

name  content  fields

Branch :  \* Language :  \*

### [Spring context sharing](#)

The project is package into an EAR contaning the following structure: Libraries The files beans.jar, commons-\*.jar, jsr173\_1.0\_api.jar, quartz-1.5.0.jar, quartz-oracle-1.5.0.jar, spring.jar, wsrf-1.1.jar and xbean.jar are all libraries. EJB The file ejbs.jar contains the EJB files. Inside met...  
Published: 7/24/06 6:27:09 PM, Document ID: 18

### [Introduction](#)

Project JMSSpring This sample project illustrate integration between Spring and JMS. Java Message Service The Java Message Service (JMS), which is designed by Sun Microsystems and several other companies under the Java Community Process as JSR 914, is the first enterprise messaging API that has ...

# Daisy - Branchs



User: Gustavo Fernandes Role: Administrator Tools Recent Changes New Document Administration Page Actions

Variants (2)

- >> main - default
- v2\_0 - default
- [Add variant ...](#)

- SIENA home
- ▼ JMSSpring
  - ▶ RDF Feeds
  - Introduction**
  - ▶ Architecture
  - Downloads
  - Maven
  - Version Control
  - Discussion Forum
  - Issue Tracking

[\[Go to navigation document\]](#)

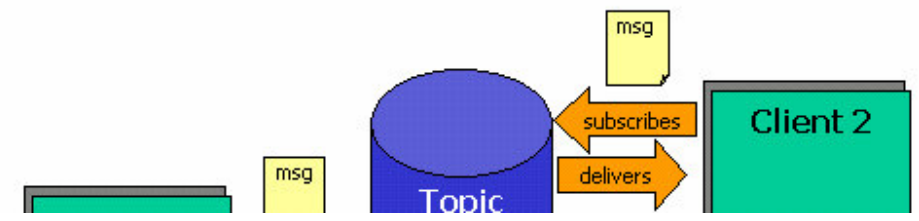
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# Daisy - Graphical Diff

Administrator Tools Recent Changes New Document Administration Page Actions Variants (2)

**/mloads**

Id (<http://luntbuild.javaforge.com/>) manages projects builds all and SVN and several build types (ant, maven, shell, for eg) and les, etc.

Builds based on several ve abilities such as notifica

Binaries and full project for JMSSpring are located [here](#) (password) fulano/fulano when a

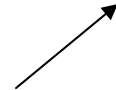
[this \(0\)](#)

- Edit
- Delete
- Duplicate
- Subscribe
- Change owner
- Document Info
- Versions
- Referrers
- Hide navigation
- PDF
- Add to basket



## Version Overview

Nr	Time	Creator	State	Actions	Diff	
<a href="#">8</a>	7/26/06 3:10:24 PM	Gustavo Fernandes	<a href="#">publish</a>		<a href="#">to previous</a>	LIVE
<a href="#">7</a>	7/24/06 6:17:23 PM	Gustavo Fernandes	<a href="#">publish</a>	<a href="#">Revert to this</a>	<a href="#">to previous</a>   <a href="#">to last</a>	
<a href="#">6</a>	6/11/06 6:49:20 PM	Gustavo Fernandes	<a href="#">publish</a>	<a href="#">Revert to this</a>	<a href="#">to previous</a>   <a href="#">to last</a>	
<a href="#">5</a>	6/10/06 9:43:43 PM	Gustavo Fernandes	<a href="#">publish</a>	<a href="#">Revert to this</a>	<a href="#">to previous</a>   <a href="#">to last</a>	
<a href="#">4</a>	6/10/06 9:38:18 PM	Gustavo Fernandes	<a href="#">publish</a>	<a href="#">Revert to this</a>	<a href="#">to previous</a>   <a href="#">to last</a>	
<a href="#">3</a>	6/10/06 9:25:27 PM	Gustavo Fernandes	<a href="#">publish</a>	<a href="#">Revert to this</a>	<a href="#">to previous</a>   <a href="#">to last</a>	
<a href="#">2</a>	6/10/06 9:10:30 PM	Gustavo Fernandes	<a href="#">publish</a>	<a href="#">Revert to this</a>	<a href="#">to previous</a>   <a href="#">to last</a>	
<a href="#">1</a>	6/10/06 9:06:42 PM	Gustavo Fernandes	<a href="#">publish</a>	<a href="#">Revert to this</a>	<a href="#">to last</a>	



Content diff

```

<html>
<body>

<p>The project is deployed as an EAR archive, containing two EJB (MDB) and one
web application, both sharing a single spring context:</p>

<p></p>

<h3>The Message Driven Beans</h3>

<p>
<a href="/cgi-bin/viewws/viewws.cgi/mdbspring/src/br/com/summa_tech/eai/sample/ejb/MDB"
<a href="/cgi-bin/viewws/viewws.cgi/trunk/mdbspring/src/br/com/summa_tech/eai/sample/ejb/MDB"
</a>will receive a message on QLOCAL queue, extract from this message a string
representing the table name, and will post in the queue QENVIO another string
containing the number of rows that the table has, as in the example below:</p>

<p>"Table COMPANY has 13455 rows"</p>

<p>
<a href="/cgi-bin/viewws/viewws.cgi/mdbspring/src/br/com/summa_tech/eai/sample/ejb/MDB"
<a href="/cgi-bin/viewws/viewws.cgi/trunk/mdbspring/src/br/com/summa_tech/eai/sample/ejb/XMLM
</a>will receive a XML message from XMLLOCAL queue and by using
<a href="http://xmlbeans.apache.org/">XMLbeans </a>will bind and validate the
message, printing the result on the logfile.</p>

<h3>The web layer</h3>

<p>The web layer will start a quartz scheduler that will put a message in the
QENVIO queue at fixed intervals (each 30 seconds). The bean that will send the
message is
<a href="/project/mdbspring/target/site/web/br/com/summa_tech/eai/sample/spring/Mess
<a href="/cgi-bin/viewws/viewws.cgi/trunk/mdbspring/src/br/com/summa_tech/eai/sample/spring/Mess
the same that is used by the MDBean EJB. This layer also has an important role:
to start spring context. The reason this layer is necessary is that quartz (wich
provides scheduling) requires the use of threads, wich is forbidden by the EJB
Spec</p>

</body>
</html>

```



# Daisy - Custom doctypes

## Edit "UCControlCards"

Document name:  ?

Author  \*

Date  ? \*

Requisitor

Marketing	>	Financial
Sales	>>	
	<	
	<<	

\*

Publish changes immediately.  Validate against document type. ?



# Daisy - Access Control

## Edit ACL

Object	Subject		Permissions					Actions
	type	value	Read Live	Read	Write	Delete	Publish	
If	<input type="text" value="true"/> *							✗ ↑ ↓ *
Then	<input type="text" value="everyone"/> *		✓	✓	✓	✓	✓	✗ ↑ ↓ *
	<input type="text" value="role"/> *	<a href="#">guest</a>	✓	✓	✗	✗	✗	✗ ↑ ↓ *
If	<input type="text"/>							✗ ↑ ↓ *
Then	<input type="text" value="role"/> *	<a href="#">guest</a>	✗	✓	✓	✗	✗	✗ ↑ ↓ *



# Daisy - Book Generation

The screenshot shows the Daisy 1.5 web application interface on the left and a Mozilla Firefox browser window on the right. The browser window displays a PDF document titled "book.pdf (application/pdf Object) - Mozilla Firef...". The PDF content is a "Table of Contents" for a book about JMS and Spring.

**Daisy 1.5 Interface:**

- Logo: daisy Daisy 1.5
- User: Gustavo Fernandes Role: Administrator Tools
- Section: Books
- Links: [Publish a book](#), [View running book publish tasks.](#)
- Section: JMSSpring
- Item: jmsspringbook 9/21 Gust
- Links: [HTML - one page](#) (zip) | [PDF](#)

**Browser Window (Mozilla Firefox):**

- Title: book.pdf (application/pdf Object) - Mozilla Firef...
- Menu: File Edit View Go Bookmarks Tools Help
- Search: Search Web
- Zoom: 30%
- Content: Table of Contents

**Table of Contents (from PDF):**

- 1 Home ..... 2
- 1.1 Welcome ..... 2
- 2 JMSSpring ..... 3
- 2.1 PDF Books ..... 3
- 2.1.1 BookId ..... 3
- 2.2 Introduction ..... 3
- 2.2.1 Project JMSSpring ..... 3
- 2.3 Architecture ..... 4
- 2.3.1 Spring context design ..... 3
- 2.4 Download ..... 8
- 2.5 Notes ..... 9
- 2.6 CVS ..... 9
- 2.6.1 SOURCE ..... 9
- 2.6.1 Building from SOURCE ..... 9
- 2.7 Executive Plan ..... 9
- 2.8 User Training ..... 9

**Browser Window (Mozilla Firefox):**

- Table of Contents
- 1 Home ..... 2
- 1.1 Welcome ..... 2
- 2 JMSSpring ..... 3
- 2.1 PDF Books ..... 3
- 2.1.1 BookId ..... 3
- 2.2 Introduction ..... 3
- 2.2.1 Project JMSSpring ..... 3
- 2.3 Architecture ..... 4
- 2.3.1 Spring context design ..... 3
- 2.4 Download ..... 8
- 2.5 Notes ..... 9
- 2.6 CVS ..... 9
- 2.6.1 SOURCE ..... 9
- 2.6.1 Building from SOURCE ..... 9
- 2.7 Executive Plan ..... 9
- 2.8 User Training ..... 9



## Daisy - Extensible

- Custom pipelines to deliver content
- Include mechanism
- Javascript API



# Including dynamic content - RSS

- Pipeline definition:

```
<daisywikidata>/sites/<sitename>/cocoon/sitemap.xmap
```

```
<map:pipeline>  
  <map:match pattern="rss-**">  
    <map:generate src="http://{1}"/>  
    <map:transform src="rdf.xsl"/>  
    <map:serialize/>  
  </map:match>  
</map:pipeline>
```







# Including dynamic content - RSS



User: guest Tools Recent Changes Page Actions Variants (2)

SIENA home

▼ JMSSpring

▼ RDF Feeds

SlashDot

Introduction

▸ Architecture

Downloads

Maven

Version Control

Discussion Forum

Issue Tracking

## SlashDot

### Slashdot: Developers

News for nerds, stuff that matters

- [First NetBSD Bugathon a Success](#)

Daniel de Kok writes "Last weekend the first NetBSD Bugathon weekend (problem reports) as possible in a weekend, checking and fixing the bugs announced widely, it was a success: about 30 developers and 20 users cl down from 4200 to less than 4000. The next Bugathon will take place on 7 help fixing bugs and handling PRs."

- [Moviately and Understanding Web 2.0 Design](#)

haym37 writes "Ajit Jaokar over at the Open Gardens blog has an article up users to tag the movies they've seen and receive automatic recommendati 'textbook case of web 2 0 design' and goes into detail about the fundamen

# Including dynamic content - Ajax



User: Gustavo Fernandes Role: Administrator Tools Recent Changes New Document Administration Page Actions Variants (1)

SIENA home

▼ JMSSpring

▶ RDF Feeds

**Ajax sample**

Introduction

▶ Architecture

Downloads

Maven

Version Control

Discussion Forum

Issue Tracking

[\[Go to navigation document\]](#)

## Ajax sample



[-] <a href="#">usr</a>	<a href="#">ar</a>	2006-02-07 05:41:23
+ <a href="#">share</a>	<a href="#">ranlib</a>	2006-02-07 05:41:23
[-] <a href="#">bin</a>	<a href="#">ld</a>	2006-02-07 05:41:23
+ <a href="#">lib</a>	<a href="#">size</a>	2006-02-07 05:41:23
+ <a href="#">libexec</a>	<a href="#">strip</a>	2006-02-07 05:41:23
+ <a href="#">sbin</a>	<a href="#">addr2line</a>	2006-02-07 05:41:23
+ <a href="#">tmp</a>	<a href="#">objdump</a>	2006-02-07 05:41:23
+ <a href="#">include</a>	<a href="#">readelf</a>	2006-02-07 05:41:23
[-] <a href="#">i386-pc-linux-gnu</a>	<a href="#">objcopy</a>	2006-02-07 05:41:23
+ <a href="#">bin</a>	<a href="#">nm</a>	2006-02-07 05:41:23
+ <a href="#">lib</a>	<a href="#">strings</a>	2006-02-07 05:41:23
+ <a href="#">gcc-bin</a>	<a href="#">gprof</a>	2006-02-07 05:41:23
+ <a href="#">binutils-bin</a>	<a href="#">as</a>	2006-02-07 05:41:23
+ <a href="#">src</a>	<a href="#">c++filt</a>	2006-02-07 05:41:23
+ <a href="#">local</a>		
+ <a href="#">portage</a>		
+ <a href="#">X11R6</a>		

[Comments \(0\)](#)



# Including dynamic content - Ajax

- simple-page2html.xsl – comment main.css
- forms-samples-styling.xsl – “as is”
- all resources must be resolved relative to cocoon:/ext pipeline:

```

```

```
<ft:form-template  
action="/cocoon/daisy/SIENA/ext/continue">
```

- Binding, Flow, CForms, Dojo => fully available



# DEMO

October, 4th, 2006



**Dank u zeer !**