

The logo for Virtuas, featuring the word "VIRTUAS" in a bold, white, sans-serif font centered within a red rectangular box with a thin black border.

VIRTUAS

7 Simple Reasons to use AppFuse

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Introductions

- Your experience with Java?
- Your experience with Web Frameworks?
- What do you hope to learn today?
- Open Source experience: Ant, Struts, WebWork, Spring, Hibernate, Eclipse, Tomcat?
- Favorite IDE? Favorite OS? Favorite Server?

Matt

Raible





























AppFuse



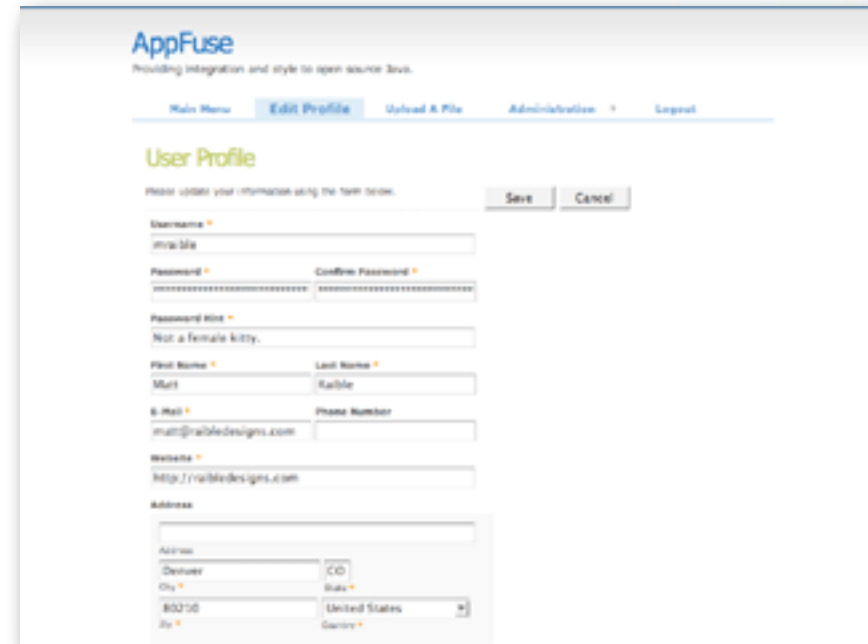
the `<display:*>` tag library

Struts Menu



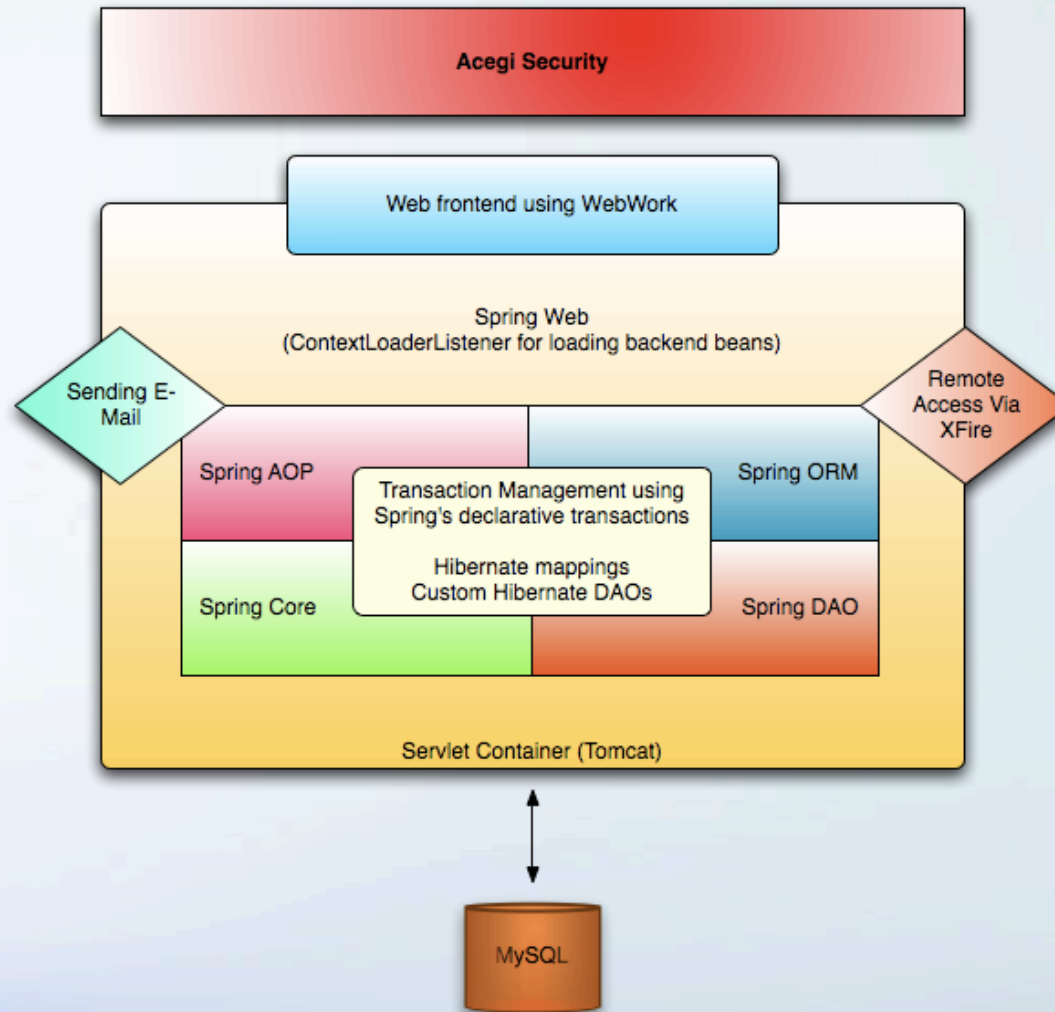
Agenda

1. AppFuse Overview
2. 7 Simple Reasons
3. Competitors
4. Roadmap
5. Pitfalls
6. Q and A



The screenshot shows the AppFuse user profile page. At the top, the AppFuse logo is displayed with the tagline "Providing integration and style to open source Java." Below the logo is a navigation menu with links for "Main Menu", "Edit Profile", "Upload A File", "Administration", and "Logout". The main heading is "User Profile". A message states "Please update your information using the form below." followed by "Save" and "Cancel" buttons. The form contains several fields: Username (mumble), Password (masked), Confirm Password (masked), Password Hint (Not a female kitty), First Name (Mum), Last Name (Rable), E-Mail (mum@rabledesigns.com), Phone Number, Website (http://rabledesigns.com), Address, Country (Denver), City (CO), State (Iowa), ZIP (80710), and Country (United States).

AppFuse Overview





AppFuse

~ what is it?

- A directory structure, build file and project classes to get your project started quickly
- The hard part is getting started and configuring dependencies
- Uses popular open-source tools: Ant, XDoclet, Spring, Hibernate, Struts (or JSF, Spring MVC, WebWork or Tapestry)
- Top 5 java.net project in hits, accesses and mail traffic

History

- Started as a sample app for Pro JSP
- Became a toolkit for starting new projects
- Lots of community feedback makes it a “best practices” webapp for Agile J2EE
- Documentation and Tutorials (November 2003)
- AppGen - CRUD made easy (November 2004)
- New Committers: Nathan, Ben, David and Sanjiv (2005), Mika and Thomas (2006)
- AppFuse 2.0: Java 5, Maven 2, Simplicity (2006-7)

Dependencies

Optional Installs

Name
appgen
cruisecontrol
ibatis
jsf
myjavapack
spring
tapestry
webwork

Name
ant-contrib-1.0b2
cargo-0.8
checkstyle-3.1
clickstream-1.0.2
dbunit-2.1
displaytag-1.1
dumbster-1.5
dwr-1.1.1
emma-2.0.5312
hibernate-3.1.3
jakarta-commons
jakarta-taglibs
java2html-1.3.1
javamail-1.3.1
jmock-1.0.1
junit3.8.1
logging-log4j-1.2.11
mysql-connector-java-3.1.12
pmd-3.0
rename-packages-1.1
servletapi-2.3
sitemesh-2.2.1
spring-1.2.8
struts-1.2.9
struts-menu-2.4
strutstest-2.1.3
urlrewrite-3.0-beta
velocity-1.4
webtest-build1263
xdoclet-1.3-SNAPSHOT

Directory Structure

Name
docs
lib
metadata
conf
sql
templates
web
src
dao
service
web
test
dao
service
web
web
common
decorators
demos
images
pages
scripts
styles
WEB-INF

Development Environment

- Download and install:
 - Ant 1.6.5+
 - MySQL 4.1.x+
 - Tomcat 5.0.28+ or Geronimo 1.1+
 - Eclipse 3.2 (or IDEA 6)
 - AppFuse 1.9.4
- <http://raibledesigns.com/wiki/DevelopmentEnvironment.html>

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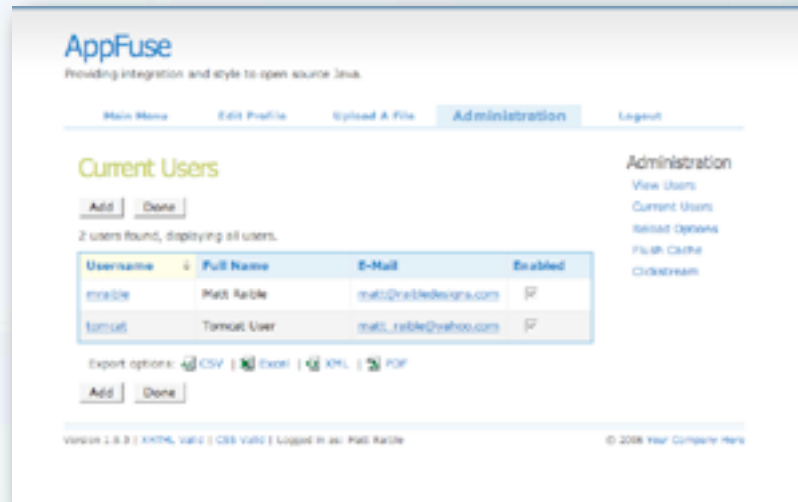
Java Multilingual CMS

blandware.com

Java Multilingual CMS

Setup Demo

<http://demo.appfuse.org/setup.html>



The screenshot displays the AppFuse Administration interface. At the top, the AppFuse logo is visible with the tagline "Providing integration and style to open source Java". Below the logo, there is a navigation menu with options: "Main Menu", "Edit Profile", "Upload A File", "Administration" (which is the active tab), and "Logout".

The main content area is titled "Current Users" and includes "Add" and "Done" buttons. Below this, it states "2 users found, displaying all users." A table lists the current users:

Username	Full Name	E-Mail	Enabled
matt@	Matt Rable	matt@trabledemo.com	<input checked="" type="checkbox"/>
tomcat	Tomcat User	matt_rable@yahoo.com	<input checked="" type="checkbox"/>

Below the table, there are "Export options" for CSV, Excel, XML, and PDF. The "Add" and "Done" buttons are repeated at the bottom of the section.

At the very bottom of the interface, there is a footer with the text: "Version 1.8.2 | XHTML Valid | CSS Valid | Logged in as: Matt Rable" and "© 2008 Your Company Here".

7 Simple Reasons to use AppFuse

7 Reasons to use AppFuse

1. Testing
2. Integration
3. Automation
4. Security
5. Code Generation
6. Documentation
7. Community



App**Fuse**

1. Testing

JUnit

1. Testing

DbUnit

JUnit

1. Testing

DbUnit

JUnit

1. Testing

Spring Mocks

DbUnit

JUnit

jMock

1. Testing

DbUnit

JUnit

jMock

1. Testing



Dumbster

Email Testing

DbUnit

JUnit

jMock

1. Testing



Dumbster

Email Testing



CARGO

DbUnit

JUnit

jMock

1. Testing



Dumbster

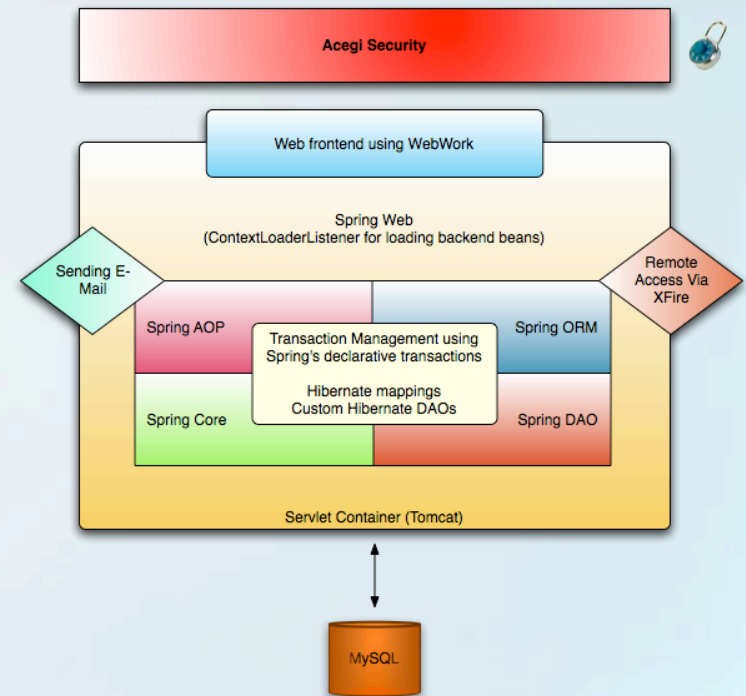
Email Testing



CARGO

webtest

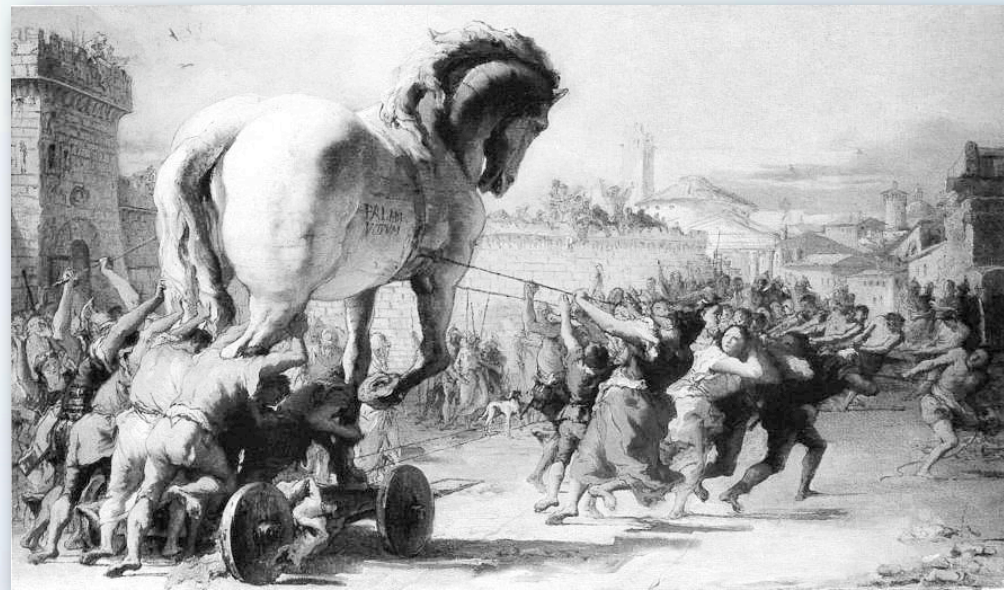
2. Integration



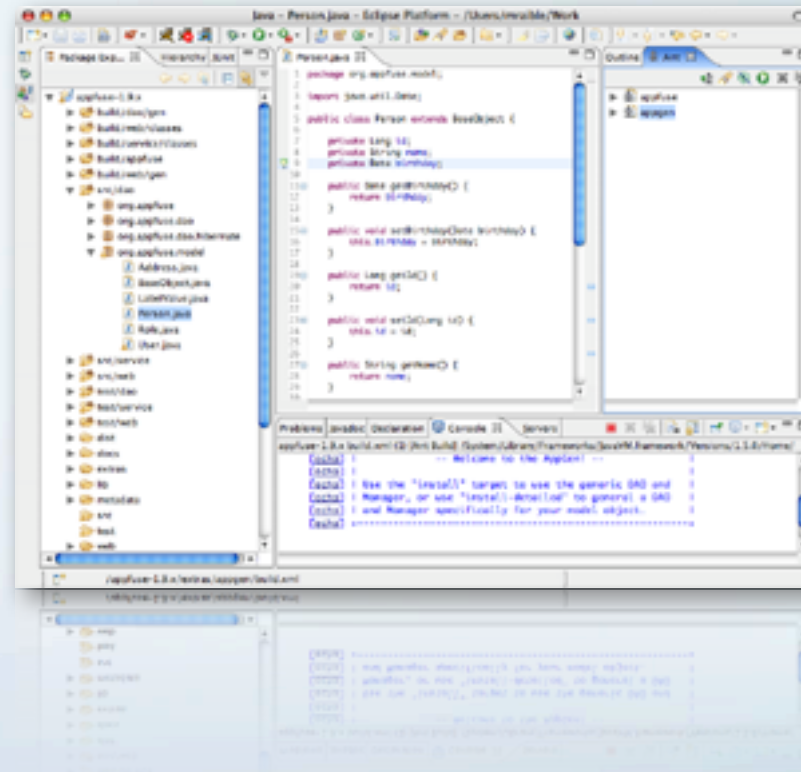
3. Automation



4. Security features and extensibility

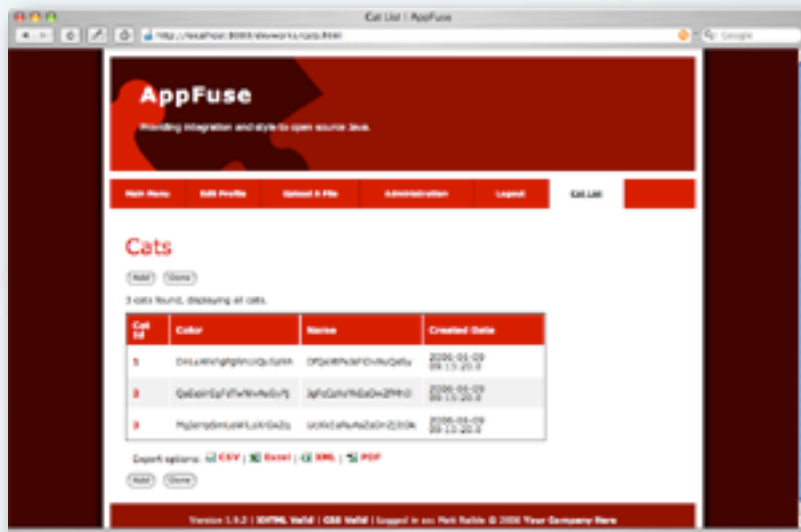


5. Code generation with AppGen



AppGen Demo

<http://demo.appfuse.org/appgen.html>



The screenshot shows the 'Call List' page of the AppFuse application. The page has a dark red header with the AppFuse logo and tagline. Below the header is a navigation menu with items: Home, All Traffic, Upload a File, Administration, Logout, and Call List. The main content area is titled 'Cats' and contains a table with three columns: Call ID, Color, Name, and Created Date. There are three rows of data in the table. Below the table are export options for CSV, Excel, XML, and PDF, along with 'Add' and 'Done' buttons. The footer of the page displays 'Version 1.0.2 | 80796, 5048 | 688 5048 | Logged in as: Mark Rubin @ 2008 Year-Company Name'.

Call ID	Color	Name	Created Date
1	Orange/White/Black	Orange/White/Black	2008-04-09 08:11:20.3
2	Orange/White/Black	Orange/White/Black	2008-04-09 08:11:20.3
3	Orange/White/Black	Orange/White/Black	2008-04-09 08:11:20.3



The screenshot shows the 'Call Detail' page of the AppFuse application. The page has the same dark red header and navigation menu as the previous screenshot. The main content area is titled 'Cat Information' and contains a form with fields for Color, Name, and Created Date. The Color field is filled with 'Orange/White/Black', the Name field is filled with 'Orange/White/Black', and the Created Date field is filled with '2008-04-09 08:11:20.3'. There are 'Save', 'Done', and 'Cancel' buttons at the bottom of the form. The footer of the page displays 'Version 1.0.2 | 80796, 5048 | 688 5048 | Logged in as: Mark Rubin @ 2008 Year-Company Name'.

6. Documentation



7. Community



Competition



Similar Projects

- Trails
- Grails
- Ruby on Rails
- Able
- Seam
- RIFE
- Qwicket



Roadmap



2.0 Roadmap

● Milestone 1

- Maven 2 integration
- Migrate from CVS to SVN
- Get all flavors (WARs) deployed and running on Tomcat and Jetty Maven Plugin
- Spring 2.0: Upgrade XML to XSDs, annotations where appropriate
- Upgrade WebWork to Struts 2
- Documentation - move to new Confluence or DocBook-based system for 2.0 documentation

2.0 Roadmap, cont.

● **Milestone 2**

- JDK 5, Annotations and JSP 2.0
- Archetypes for creating new AppFuse projects
- Documentation, including screencasts for tutorials

● **Milestone 3**

- Integrate CeltiXFire by default
- Code Generation - replacing AppGen

2.0 Nice to haves

- TestNG replacing JUnit
- Hibernate Validation Annotations (hard part is hooking it into the web frameworks)
- Tomcat Plugin for Maven (like Jetty's plugin)
- JPA Support
- Support for JDK 1.4 using something like Retroweaver
- Support for using Ant to build/test/deploy

Pitfalls and Issues



Learn more from...

- Comparing Web Frameworks:
 - <https://equinox.dev.java.net/framework-comparison>
- What's new in Spring 2.0:
 - <http://www.springframework.org/docs/reference/new-in-2.html>
- Spring 2.0 Kickstart:
 - <http://springdeveloper.com/presentations/spring-kickstart.html>

Equinox

- AppFuse Light - designed for quick apps with few requirements (i.e. prototypes)
- Includes 6 MVC implementations: JSF, Spring MVC, Struts, Struts 2, Tapestry and WebWork
- Includes 5 Persistence frameworks: Hibernate, iBATIS, JDO, OJB, Spring JDBC
- 50 combinations available!
- Located at <http://equinox.dev.java.net>

Questions?

- AppFuse Project:

- <http://appfuse.org>



App**Fuse**

- Demos and Videos:

- <http://demo.appfuse.org/demos.html>

- Tutorials:

- <http://appfuse.org/tutorials>