# Web Framework Smackdown

**Ed Burns,** JavaServer™ Faces

**Jason Carreira,** Webwork

**David Geary,** Struts Shale

**Howerd M. Lewis Ship,** Tapestry

**Jonathan Locke,** Wicket

***Kevin Osborn,*** *Moderator*

TS-7642

# Meet the Framework Developers
## Help you compare and contrast

Gain insight into the leading Java™ technology-based Web Application Development Frameworks by seeing them present and interact in the same room

# Agenda

Each framework gets three minutes max:
    JavaServer™ Faces Platform
    Webwork
    Struts-Shale
    Tapestry
    Wicket
Moderator Questions
Audience Questions

# **Agenda**

Each framework gets three minutes max:

<span style="color:red">JavaServer™ Faces Platform</span>

Webwork

Struts-Shale

Tapestry

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# JavaServer Faces Platform
## Technical Features

- First class UI component and event model

- POJO Dependency Injection (a.k.a. Inversion of Control)

- Client device independence

- Use with or without tools

- Extrernalized navigation

- Massively extensible (witness Shale)

- Completely Integratable (witness JavaServer Faces technology-Spring)

- Localizable and accessible

# JavaServer Faces Platform
## Market Features

- Inclusive EG: individuals and organizations



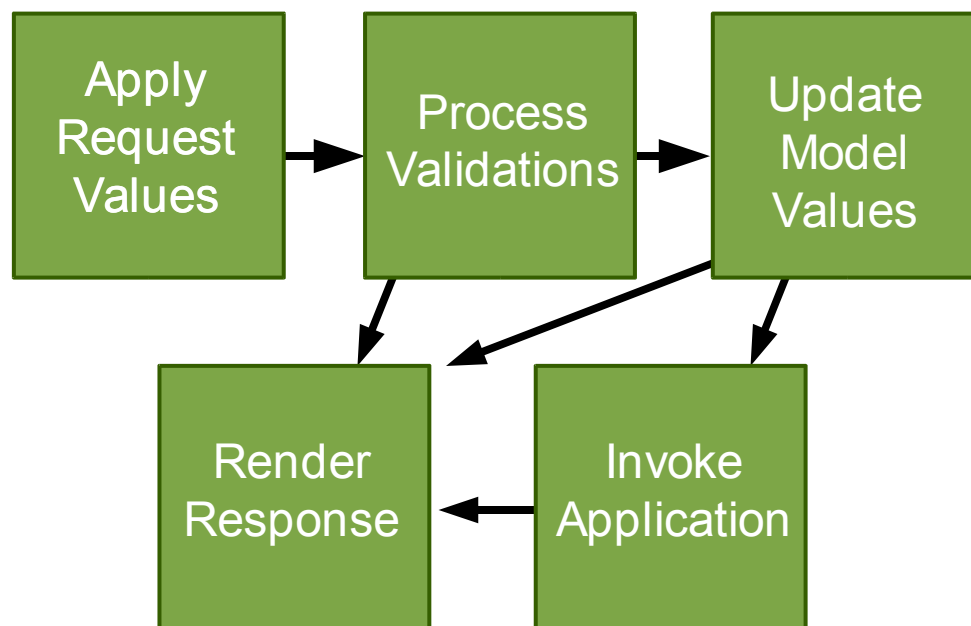- A part of Java Enterprise Edition 5 platform

- Large third-party component market



- Industry leading tools have world class JavaServer Faces technology integration
  - Sun Java Studio Creator IDE, Oracle Jdeveloper, IBM WSAD

- Many books available

- Three pages of JavaServer Faces technology-related jobs on monster.com

# JavaServer Faces Platform
## Request Processing Lifecycle

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# WebWork

Open Source, Template-ready, Command Pattern Framework

- Flexible, view technology agnostic, Web MVC framework

- Map HTTP request to a logical (interceptable) action

- Support for different view technologies: JavaServer Pages™ (JSP™), Velocity

- Uses OGNL for Expression Language

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# Struts-Shale

Making JavaServer Faces Platform Better

- A framework built on JavaServer Faces technology and Jakarta Chain

- A proposal for Struts 2.0

- No direct connection with Struts Classic

# Struts-Shale

Features

- Web flow!

- Ajax!

- Spring and Tiles Integration!

- Client- and server-side validation!

- Tapestry-like views and parameterized subtrees!

- Utilities: Back button abuse, file uploads, Java Naming and Directory Interface™ (JNDI) API!

# Struts-Shale

## Extension Points

- ShalePropertyResolver
- ShaleVariableResolver
- DialogNavigationHandler
- ShaleViewHandler
- TilesViewHandler

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# Tapestry
What Is Tapestry?

- Open-Source Java technology-based Web Application Framework
  - Started in 2000
  - Jakarta Project—Apache Software License
- Component-oriented not operation-oriented
- Object-oriented coding—methods *and* properties
- Eliminate plumbing: URLs, query parameters, etc.
- Minimal Java language coding

# Tapestry
## Benefits

- Excellent developer feedback

- Rapid development model

- Embraces team development

- <span style="color:red">Easy</span> to create new components

- True component re-use

# Tapestry
## What Is Tapestry Not?

- **Not** just a templating engine
  - Full cycle...request to render to request

- **Not** Struts++ (see JavaServer Faces technology, Shale)

- **Not** a one man project
  - Committers: Mind Bridge, Paul Ferraro, Erik Hatcher, Harish Krisnaswamy, Richard Lewis-Shell, Geoff Longman, David Solis

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# Wicket

## What Is Wicket?

- Java technology-based Web Application framework

- Component-based

- 'Java Foundation Classes/Swing API-like'

- POJO data models

- No 'special' markup

- Open source

- Apache 2 license

- http://wicket.sourceforge.net

| **Servlets** | **JSP Components** | **MVC/Model2** | | **Component-based** | |
|---|---|---|---|---|---|
| | | WebWork | Maverick | JavaServer Faces technology | |
| | | Struts | | Tapestry | **Wicket** | Echo |

# Wicket

## Wicket Subtitle

- Easy-to-use
  - Simple
  - Consistent
  - Obvious

- Reusable components

- Non-intrusive

- Safe

- Efficient/scalable

# Wicket

## Features

- Out-of-the-box
  - Clustering
  - Back button
  - TreeView
  - Pageable Listview
- Detachable models
- Factory customizable
- Typesafe session

- Localizable form validation
- Automatic localizable conversions
- Programmatic manipulation of HTML attributes

Complete list on http://wicket.sourceforge.net

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# Submit Session Evaluations for Prizes!

## Your opinions are important to Sun

- You can win a $75.00 gift certificate to the on-site Retail Store by telling Sun what you think!

- Turn in completed forms to enter the daily drawing

- Each evaluation must be turned in the same day as the session presentation

- Five winners will be chosen each day (Sun will send the winners e-mail)

- Drop-off locations: give to the room monitors or use any of the three drop-off stations in the North and South Halls

  Note: Winners on Thursday, 6/30, will receive and can redeem certificates via e-mail.

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