

A Quick Introduction to Struts

The title is centered and overlaid on a decorative arrangement of six orange circles. The top row consists of three circles: the first is an outline, the second is solid, and the third is solid. The bottom row also consists of three circles: the first is solid, the second is solid, and the third is an outline.

Presented By
DevelopIntelligence LLC

A Quick Introduction to Struts

- What is Struts?
- Motivation for Struts
- Components of Struts
- Adopting Struts
- Working with Struts

What is Struts?

- Open-source web application development framework
 - Managed by Apache Software Foundation
 - Initial release 2001; Current release is 1.3.x
 - Written in Java
- Created as Model 2 [Model-View-Controller (MVC)] framework for building Java based web-applications
 - Provides ability to have web application broken into three parts:
 - Model - business logic and data manipulation
 - Controller - request processing and data validation
 - View - response generation
 - Composition of components and facilities leveraging Java Servlet API and XML

Motivation for Struts

- Model 2 centric web applications
 - Separation of concerns
 - Reusability
- Reusable framework for building Model 2 centric applications
 - Provides reusable controller facility, allowing developers to focus on:
 - Presentation logic - the view
 - Business logic - the model
 - Provides dynamic, externalized flow control

Components of Struts

- Base Framework - simplifies MVC implementation
 - Provides core MVC functionality
 - Controller - `ActionServlet`
 - Controller Delegates - `Action` and `ActionForm`
 - Contains configuration files
 - Main MVC configuration file - `struts-config.xml`
 - Can have multiples per solution
- Tag Libraries - simplify presentation logic
 - Struts Tag Libraries includes tags for things like:
 - HTML form generation
 - JavaBean access within view
 - Logical and flow control
 - Partially superseded by Java Server Pages Standard Tag Libraries (JSTL)
- Plugins - extensions to Struts
 - Tiles - templating framework
 - Validator - validation framework

Adopting Struts



- Required Infrastructure

- Java Virtual Machine, typically 1.4 or higher
- Java Enterprise Edition web container typically supporting Servlet 2.4 or higher

- Required Skills

- Java language knowledge, including JavaBeans, Property Files, and ResourceBundles
- Web development knowledge (HTTP request / response cycle, HTML, etc)
- Java web development knowledge (Servlets, JSPs, Filters, etc)

Working with Struts

- Locating Struts

- Struts Project page -

<http://struts.apache.org>

- Struts Download page -

<http://struts.apache.org/download.cgi#struts135>

- Developing Struts

- Eclipse Struts Plugins like EasyStruts and MyEclipse

- Netbeans Struts Plugins like StrutsConsole

- Learning Struts

- Apache Learning resources -

<http://struts.apache.org/1.3.5/learning.html>



About DevelopIntelligence

- Founded in 2003
- Provide outsourced services to learning organizations in area of software development
- Represents over 35 years of combined experience enabling software development community through educational and performance services
- Represents over 50 years of combined software development experience
- Delivered training to over 25,000 developers worldwide

Areas of Expertise

● Instruction

- Java
- J2EE
- WebServices / SOA
- Web Application Development
- Database Development
- Open Source Frameworks
- Application Servers

● Courseware

- Java Application Development
- Java Web App Development
- Enterprise Java Development
- OOAD / UML
- IT Managerial
- Emerging Technologies and Frameworks



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