



JSF Java Server Faces Simple Introduction

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What is JSF?

- A specification and reference implementation for a **server side, user interface component** framework framework that provides:
 - UI Components
 - Page navigation
 - State management
 - Lifecycle control
 - Event handling
 - Validation
 - Internationalization
 - Back-end-data integration
- Extensible Component and Rendering architecture
- A framework designed to be leveraged by tools

What is JSF?

A better Struts?

Like Apache Struts, JSF can be viewed as an MVC framework for building HTML forms, validating their values, invoking business logic, and displaying results.

JSF Components

- **UI Component**
 - Render-independent characteristics
 - Base class with standard behaviors
- **Faces Event** – base class for request and application events
- **Validator** – base class for standard and application defined validators
- **Converter** – Plug-in for String-Object conversion (or custom data conversion utilities)
- **Faces Context** (per request state)
 - Servlet request, response, session
 - JSF request, response trees

JSF vs. Struts

Custom components

JSF makes it relatively easy to combine complex GUIs into a single manageable component; Struts does not

Support for other display technologies

JSF is not limited to HTML and HTTP; Struts is

Access to beans by name

JSF lets you assign names to beans, then you refer to them by name in the forms. Struts has a complex process with several levels of indirection where you have to remember which form is the input for which action.

JSF vs. Struts

Simpler controller and bean definitions

JSF does not require your controller and bean classes to extend any particular parent class (e.g., Action) or use any particular method (e.g., execute). Struts does.

Simpler config file and overall structure

The faces-config.xml file is much easier to use than is the struts-config.xml file. In general, JSF is simpler.

More powerful potential tool support

The orientation around GUI controls and their handlers opens possibility of simple to use, drag-and-drop IDEs

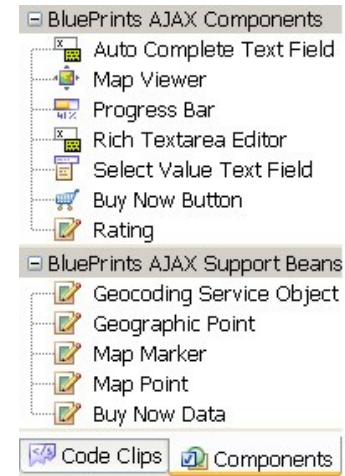
Comprehensive UI Component Library

The basic building blocks for web applications

- From the basics:
 - > Label, Text Field, Button, Hyperlink, Image...
- And popular requests:
 - > Pop-up Calendar, File Upload,...
- On to sophisticated layout:
 - > Table, Tree, Tab Set, Breadcrumbs,...
- Up to powerful composite components:
 - > Add/Remove List, Orderable List, File Chooser...

AJAX-Enabled JavaServer Faces Components

- Blueprints AJAX Components
 - > Auto Complete Text Field, Map Viewer, Progress Bar, Rich Text area Editor, Select Value Text Field, Buy Now Button, Rating
- Blueprints AJAX Support Beans (non-visual)
 - > Geocoding Service Object, Geographic Points, Map Maker, Map Point, Buy Now Data





Demo JSF Tool



J2ME

Dziękuję

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