

# STRUTS 2 Curriculum



Development | Training | Consultancy

Duration -1 Month

## STRUTS 2

- **The modern web application framework**
  - Web applications: a quick study.
  - Frameworks for web applications.
  - The Struts 2 framework.
- **Saying hello to Struts 2**
  - Declarative architecture.
  - A quick hello.
  - HelloWorld using annotations.
- **Working with Struts 2 actions**
  - Introducing Struts 2 actions.
  - Packaging your actions.
  - Implementing actions.
  - Transferring data onto objects.
  - File uploading: a case study.
- **Adding workflow with interceptors**
  - Why intercept requests?
  - Interceptors in action.
  - Surveying the built-in Struts 2 interceptors.
  - Declaring interceptors.
  - Building your own interceptor.
- **Data transfer: OGNL and type conversion**
  - Data transfer and type conversion: common tasks of the web application domain.
  - OGNL and Struts 2.
  - Built-in type converters.
  - Customizing type conversion.
- **Building a view: tags**
  - Getting started.
  - An overview of Struts tags.

## STRUTS 2

- Data tags.
- Control tags.
- Miscellaneous tags.
- Using JSTL and other native tags.
- A brief primer for the OGNL expression language.

### → **UI component tags**

- Why we need UI component tags.
- Tags, templates, and themes.
- UI Component tag reference.

### → **Results in detail**

- Life after the action.
- Commonly used result types.
- JSP alternatives.
- Global results.

### → **Integrating with Spring and Hibernate/JPA**

- Why use Spring with Struts 2?
- Adding Spring to Struts 2.
- Why use the Java Persistence API with Struts 2?

### → **Exploring the validation framework**

- Getting familiar with the validation framework.
- Wiring your actions for validation.
- Writing a custom validator.
- Validation framework advanced topics.

### → **Understanding internationalization**

- The Struts 2 framework and Java i18n.
- A Struts 2 i18n demo.
- Struts 2 i18n: the details.
- Overriding the framework's default locale determination.

### → **Extending Struts 2 with plug-ins**

- Plug-in overview.
- Common plug-ins.
- Internal component system.
- Writing a breadcrumb plug-in

## STRUTS 2

### Best practices

- Setting up your environment.
- Unit-testing your actions.
- Maximizing reuse.
- Advanced UI tag usage.

### Migration from Struts Classic

- Translating Struts Classic knowledge.
- Converting by piecemeal.

### Advanced topics

- Advanced action usage.
- Dynamic method invocation.
- Using tokens to prevent duplicate form submits.
- Displaying wait pages automatically.
- A single action for CRUD operations.
- Tiles and Struts 2.



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