

Struts 2

Struts 2 Exception Handling - exception interceptor

In our web application, there might occur exception at any point.

To overcome this problem, struts 2 provides a mechanism of **global exception handling** where we can display a global result to the user.

Struts 2 automatically log the uncaught exceptions and redirects the user to the error handler page.

Understanding the internal working of exception interceptor

If there occurs exception, it is wrapped in **ExceptionHandler** and pushed in the valuestack so that we can easily access exception object from the result.

Example of exception handling in struts 2

For exception handling, we specify the global-result and global-exception-mappings in the struts.xml file.

The **global-results** sub-element of package specifies the global-result for this package.

The **result** sub-element of global-result specifies the result page that will be rendered to the user as a view.

The **global-exception-mappings** sub-element of package specifies the exception mapping for all the actions of this package.

The **exception-mapping** sub-element of global-exception-mapping maps the given result for the given exception type. In this example, we are using the Exception which the parent of many exception classes such as IOException, ArithmeticException etc. It means if any exception occurs, specified result will be invoked.

Displaying exception

We can display the exception on the browser by printing the exception or exceptionStack.

The exception object prints the exception name whereas exceptionStack prints the exception details.

globalresult.jsp

The other required resources to complete this example are as follows:

1. **Input page (index.jsp)**
2. **Action class (Login.java)**
3. **View components (globalresult.jsp, welcome.jsp and error.jsp)**

1) Create index.jsp for input

This jsp page creates a form using struts UI tags. It receives name and password from the user.

2) Create the action class

This action class contains two fields name and password and one method execute. Here, we are throwing exception self if password matches struts.

This is dummy example, if you comment the mentioned line in the execute method, exception will not occur.

3) Create view components

There are three view components globalresult.jsp that displays the exception message, welcome.jsp that displays the welcome message with the username and error.jsp that displays the error message.