

911- Java Server Faces

JSF Intro Overview

- Understanding JSF
 - Different views of JSF
 - Comparing JSF to standard servlet/ JSP technology
 - Comparing JSF to Apache Struts

Controlling JSF Page Navigation

- JSF flow of control
- The basic steps in using JSF
- Static navigation
 - One result mapping
- Dynamic navigation
 - Multiple result mappings

Managed Beans

- Using beans to represent request parameters
- Declaring beans in faces-config.xml
- Outputting bean properties
 - Standard JSF approach
 - JSP 2.0 expression language

The JSF Expression Language

- Motivating use of the expression language
- Comparing to the JSP 2.0 EL
- Accessing bean properties
- Submitting bean properties
 - Expressions in output values
 - Expressions in submission values
 - Expressions for action controllers
- Accessing collection elements
- Using implicit objects and operators

JSF Properties Files

- Loading properties files
- Simple messages
- Parameterized messages
- Internationalized messages

JSF Event Handling

- Comparing action controllers to event listeners
- Action listeners
- Value change listeners
- Using JavaScript to submit form
 - Browser incompatibilities
- Combining action listeners and action controllers in the same GUI element

The JSF "h" (HTML) Package

- Most common usage
- Shared attributes
- Implied attributes
- Elements that can invoke action controllers/listeners
- Elements that can invoke value change listeners
- Elements that display lists of items

Validating User Input

- Manual validation
- Implicit automatic validation
- Explicit validation
- MyFaces validators
- Creating custom validators

Accessing Databases with JDBC

- Overview of JDBC technology
- JDBC drivers
- Seven basic steps in using JDBC
- Using JNDI with JDBC
- Retrieving data from a ResultSet
- Using prepared and callable statements
- Submitting multiple statements as a transaction

Using JSF Data Tables

- Motivation
- Basic syntax
- Defining table headings
- Formatting tables with style sheets
- Displaying database tables