

## JSF Course Contents

Duration: 2 Days

### DAY 1

#### ❖ Getting Started with JSF

- GUI Development
- JavaServer Faces
- A JSF Application
- JSF Components
- Managed Beans
- Configuration Files
- JSF Application Structure
- Running the Application

#### ❖ JSF Tag Libraries

- The JSF Component Tree
- JSF Tag Libraries
- Forms
- Input Tags
- Output Tags
- Buttons and Links
- Checkboxes
- Radio Buttons, Listboxes, and Menus
- Panels

#### ❖ Managed Beans

- Managed Beans and MVC
- Properties
- Configuring Beans
- Bean Scope
- Value Bindings
- Method Bindings
- Dynamic Beans - Lists
- Dynamic Beans - Maps
- Advanced Property Initialization

#### ❖ JSF Lifecycle and Event Handling

- JSF Lifecycle Overview
- Restore View Phase
- Apply Request Values Phase
- Process Validation Phase

- Update Model Values Phase
- Invoke Application Phase
- Render Response Phase
- JSF Events
- Action Events
- Value Change Events
- Immediate Event

❖ **Navigation**

- Navigating Through a JSF Application
- Basic Navigation Configuration
- From View Id
- From Action
- Forward vs. Redirect

❖ **Data Table Component**

- Data and Tables
- Basic Structure
- Headers and Footers
- Styles
- Adding Editable Components
- DataModel
- Sorting
- Scrolling

**Day 2**

❖ **Validators and Converters**

- Validation and Conversion within the JSF Lifecycle
- Converting Dates
- Converting Numbers
- Displaying Conversion Errors
- Built-In Validators
- Customizing Error Messages
- Writing Your Own Converter
- Custom Converter Configuration
- Writing Your Own Validator

❖ **Introduction to Custom Components**

- Why Custom Components?
- Important JSF API Classes
- Custom Component Building Blocks

- Writing the Custom Component Class
- Encoding
- Using the ResponseWriter
- Decoding
- Writing the Tag Class
- Building the TLD
- Configuring the Custom Component
- Using the Custom Component

❖ **INTERNATIONALIZATION**

- I18N and L10N
- Resource Bundles
- Configuring a Resource Bundle
- Using a Resource Bundle
- Specifying the Locale
- I18N in Custom Code
- Dates and Numbers