

Introduction to the JavaServer Faces API («JEE04»)

This course provides an introduction to the practical use of JavaServer Faces (JSF) in web applications.

Duration: 2 days

Price: 1'400.–

Content

1. Basics
 - JSF Application Life Cycle
 - JSF Phases
 - Model/View/Controller (MVC) architecture pattern
2. Web applications
 - texture
 - Class `javax.faces.webapp.FacesServlet`
 - Deployment Descriptor
 - annotation
 - Web Archive (WAR)
3. Facelets
 - View Declaration Language (VDL)
 - Facelet Tag Libraries
4. User Interface Components
 - Type hierarchy
 - Class `javax.faces.component.UIComponent`
 - Class `javax.faces.component.UIForm`
 - Class `javax.faces.component.UIInput`
 - Class `javax.faces.component.UICommand`
 - Class `javax.faces.component.UIData`
5. HTML Rendering Tag Library
 - categories
 - Input Tags
 - Selection Tags
 - command tags
 - Link Tags
 - output tags
 - Data Table Tags
 - Layout Tags
 - Fragment Tags
 - error tags
6. Faces Core Tag Library
 - categories
 - Parameter Tags
 - Attributes Tags
 - Facet Tags
 - Localization Tags
 - Event Handling Tags
 - Conversion Tags
 - Validation Tags
7. Managed beans
 - JSF Bean
 - CDI bean
 - scope

- Interface `javax.enterprise.conext.Conversation`
- 8. Unified Expression Language (EL)
 - syntax
 - Implicit Objects
 - operators
- 9. Navigation
 - Implicit Navigation
 - Navigation Model
 - redirecting
 - bookmarking
 - View Parameters
 - flash
- 10. Messages
 - resource bundle
 - internationalisation
- 11. Conversion
 - Data Conversion Model
 - standard converter
 - special converter
 - Interface `javax.faces.convert.Converter`
 - conversion error
- 12. Validation
 - Data Validation Model
 - standard validator
 - validation method
 - default validator
 - special validator
 - Interface `javax.faces.validator.validator.validator`
 - validation errors
- 13. Bean Validation
 - standard restriction
 - special restriction
 - constraint error
- 14. Data tables
 - visualization
 - sorting
 - pagination
 - Class `javax.faces.model.DataModel`
 - Class `javax.faces.model.arrayDataModel`
 - Class `javax.faces.model.iterableDataModel`
 - Class `javax.faces.model.CollectionDataModel`
 - Class `javax.faces.model.ListDataModel`
 - Class `javax.faces.model.ResultDataModel`
 - Class `javax.faces.model.ResultSetDataModel`
 - Class `javax.faces.model.ScalarDataModel`
- 15. Asynchronous
 - asynchronous life cycle
 - AJAX Day
 - JavaScript API
- 16. Event handling
 - Event Processing Life Cycle
 - event types
 - Class `javax.faces.event.FacesEvent`
 - Interface `java.util.EventListener`
 - Interface `javax.faces.event.FacesListener`
 - Interface `javax.faces.component.ActionSource`

- Class javax.faces.event.ActionEvent
- Interface javax.faces.event.ActionListener
- Interface javax.faces.component.ValueHolder
- Interface javax.faces.component.EditableValueHolder
- Class javax.faces.event.ValueChangeEvent
- Interface javax.faces.event.ValueChangeListener
- Class javax.faces.lifecycle.lifecyle.class
- Class javax.faces.event.PhaseId
- Class javax.faces.event.PhaseEvent
- Interface javax.faces.event.PhaseListener
- Class javax.faces.event.SystemEvent
- Interface javax.faces.event.SystemEventListener

17. Facelets Templating Tag Library

- categories
- Template Tags
- Custom Component Tags
- utility tags
- View Include
- view template
- View Decorator
- View Debugging
- View Iteration

18. Composite Components Tag Library

- categories
- Interface Tags
- Implementation Tags
- composite component

Key Learnings

- Introduction to the JavaServer Faces (JSF) API specification
- Practical use of JavaServer Faces (JSF)

Target audience

This course is aimed at application developers who want to use JavaServer Faces (JSF) in web applications.

Requirements

Several months of practical experience in application development with Java and/or completion of the previous course:

- [Introduction to the JavaServer Pages API \(«JEE03»\)](#)

Further courses

- [Introduction to RESTful Webservices with JAX-RS and JSON \(«JEE05»\)](#)

Any questions?

We are happy to advise you on +41 44 447 21 21 or info@digicomp.ch. You can find detailed information about dates on www.digicomp.ch/courses-

