



Extended Development with ICEfaces and JSF - Onsite

DAY 1:

Day 1 begins with an introduction to JavaServer Faces (JSF). Working with your choice of IDE (MyEclipse, Eclipse, or NetBeans) you will create and deploy a JSF web application. Each lecture is followed by an exercise, covering a broad range of JSF features. The exercises build upon each other, so that by the end of the course, you will have a fully functional enterprise application. Topics include:

- How JSF implements the MVC design pattern
- Phases of the JSF Lifecycle
- Simple JSF Form
- Managed-Beans, Validators, & Converters
- Introduction to Facelets
- Internationalization

DAY 2:

Day 2 of the course continues to expand your knowledge of JSF and then provides an introduction to ICEfaces. The exercises will have you convert your application to ICEfaces and take advantage of Ajax features such as partial-submit. Afterward you will fortify your application with ICEfaces components. Topics include:

- JSF Events: Value Change Listeners, Action Listeners
- JSF Selection Components
- Introduction to ICEfaces
- ICEfaces Components: Layout Panels, Auto-Complete, Rich Text Editor
- File Upload With Ajax-Push Progress Indicator

DAY 3:

Day 3 of the course focuses on application design. After creating tables in a Derby database, you will use the Spring Framework to give your application a loosely-coupled, service-oriented architecture. Topics include:

- Create a Database With Derby
- Spring Bean Integration
- Services, Inversion of Control (IOC) / Dependency Injection (DI)
- Use Spring to Build Data Access Objects (DAO) Persistence Layer
- Use Spring to Build a Service Layer

DAY 4:

Day 4 of the course continues with building your application. You will learn how to inject Spring services into your managed beans and use ICEfaces to build a Rich Internet Application (RIA) that features Create, Read, Update, and Delete (CRUD) functionality.

Topics include:

- Add an ICEfaces DataTable to View Data
- Fortify the ICEfaces DataTable with Sorting and Pagination
- Improve Scalability with Lazy-Loading DataModel
- Advanced Facelets: Composite Components and Templating

DAY 5:

Day 5 of the course rounds-out your knowledge of ICEfaces. Topics include:

- ICEfaces Components: Calendar, Charts, Tree, Menus, Google Map
- ICEfaces Drag & Drop and Special Effects
- ICEfaces Ajax-Push Chat Application
- ICEfaces Styling and Accessibility
- ICEfaces Best Practices, Optimizations, Testing, and Security

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