

# Apache DeltaSpike Demo

Example `deltaspikes-fullstack` can be browsed at <https://github.com/apache/tomee/tree/master/examples/deltaspikes-fullstack>

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<h2>Steps to run the example</h2>

Build and start the demo:

```
mvn clean package tomee:run
```

Open:

```
http://localhost:8080/
```

This example shows how to improve JSF2/CDI/BV/JPA applications with features provided by Apache DeltaSpike and MyFaces ExtVal.

<h2>Intro of Apache DeltaSpike and MyFaces ExtVal</h2>

The Apache DeltaSpike project hosts portable extensions for Contexts and Dependency Injection (CDI - JSR 299). DeltaSpike is a toolbox for your CDI application. Like CDI itself DeltaSpike is focused on type-safety. It is a modularized and extensible framework. So it's easy to choose the needed parts to facilitate the daily work in your project.

MyFaces Extensions Validator (aka ExtVal) is a JSF centric validation framework which is compatible with JSF 1.x and JSF 2.x. This example shows how it improves the default integration of Bean-Validation (JSR-303) with JSF2 as well as meta-data based cross-field validation.

<h2>Illustrated Features</h2>

<h3>Apache DeltaSpike</h3>

<ul>

- [Type-safe view-config](./src/main/java/org/superbiz/deltaspike/view/config/Pages.java)
- [Type-safe \(custom\) view-meta-data](./src/main/java/org/superbiz/deltaspike/view/InfoPage.java)
- [Type-safe navigation](./src/main/java/org/superbiz/deltaspike/view/MenuBean.java)
- [Type-safe custom project-stage](./src/main/java/org/superbiz/deltaspike/CustomProjectStage.java)
- [@WindowScoped](./src/main/java/org/superbiz/deltaspike/view/UserHolder.java)
- [Controlling DeltaSpike grouped-conversations with GroupedConversationManager](./src/main/java/org/superbiz/deltaspike/view/MenuBean.java)
- [@GroupedConversationScoped](./src/main/java/org/superbiz/deltaspike/view/FeedbackPage.java)
- [Manual conversation handling](./src/main/java/org/superbiz/deltaspike/view/FeedbackPage.java)
- [Secured pages \(AccessDecisionVoter\)](./src/main/java/org/superbiz/deltaspike/view/security/LoginAccessDecisionVoter.java)
- [@Transactional](./src/main/java/org/superbiz/deltaspike/repository/Repository.java)
- [I18n \(type-safe messages\)](./src/main/java/org/superbiz/deltaspike/view/RegistrationPage.java)
- [Dependency-Injection for JSR303 \(BV\) constraint-validators](./src/main/java/org/superbiz/deltaspike/domain/validation/UniqueUserNameValidator.java)
- [Dependency-Injection for JSF phase-listeners](./src/main/java/org/superbiz/deltaspike/DebugPhaseListener.java)

### Apache MyFaces ExtVal

- [Cross-Field validation \(@Equals\)](./src/main/java/org/superbiz/myfaces/view/RegistrationPage.java)
- [Type-safe group-validation \(@BeanValidation\) for JSF action-methods](./src/main/java/org/superbiz/myfaces/view/RegistrationPage.java)