

Apache DeltaSpike Demo

Example `deltaspike-fullstack` can be browsed at <https://github.com/apache/tomee/tree/master/examples/deltaspike-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>
  <li><a href="/src/main/java/org/superbiz/deltaspike/view/config/Pages.java"
target="_blank">Type-safe view-config</a></li>
  <li><a href="/src/main/java/org/superbiz/deltaspike/view/InfoPage.java"
target="_blank">Type-safe (custom) view-meta-data</a></li>
  <li><a href="/src/main/java/org/superbiz/deltaspike/view/MenuBean.java"
target="_blank">Type-safe navigation</a></li>
  <li><a href="/src/main/java/org/superbiz/deltaspike/CustomProjectStage.java"
```

- target="_blank">Type-safe custom project-stage@WindowScopedControlling DeltaSpike grouped-conversations with GroupedConversationManager@GroupedConversationScopedManual conversation handlingSecured pages (AccessDecisionVoter)@TransactionalI18n (type-safe messages)Dependency-Injection for JSR303 (BV) constraint-validatorsDependency-Injection for JSF phase-listeners

<h3>Apache MyFaces ExtVal</h3>

- Cross-Field validation (@Equals)Type-safe group-validation (@BeanValidation) for JSF action-methods