

Exercises: JSF 2.2 Faces Flow Part 1

Make a new project that will support faces flow. After you copy and rename jsf-blank, you must do some additional steps, because faces flow requires CDI:

- Copy weld-servlet.jar from the WebContent/WEB-INF/lib folder of “flows”, and put it in the WebContent/WEB-INF/lib folder of your new project.
- Copy web.xml and beans.xml (but *not* faces-config.xml) from the WebContent/WEB-INF folder of “flows”, and put them in the WebContent/WEB-INF folder of your new project.
- Copy context.xml from the WebContent/META-INF folder of “flows”, and put it in the WebContent/META-INF folder of your new project.

Neither of those steps would have been necessary with a full Java EE 7 server such as Glassfish 4.

- 1.** Make a flow called “first-flow”. Give it a start page that says something like “I am the first-flow start page”, a return page that says something like “I am the first-flow return page”, and three additional pages each of which say something like “I am page *n*”. In your start page and the three additional pages, put in links that will navigate to all five of the pages (start page, return page, page1, page2, page3). In your index.xhtml file, put in a link to the first-flow start page. Test.
- 2.** Add in a flow-scoped bean that has an instance variable of type Date that is created when the bean is instantiated, and a getter method that just returns the instance variable. Add the following to one or more pages of first-flow:

```
<h2>Bean creation time: #{firstFlowBean.creationTime}</h2>
```

Navigate for a while within first-flow, and verify that the printed creation time does not change. Then go to the return page, then again to the start page. Verify that the time is now updated. Reminder: be sure to make your bean Serializable.
- 3.** Copy the first-flow folder and call it second-flow. Make the appropriate changes so that the pages, the navigation, and the bean work within this flow. Make sure that first-flow also still works the same way it did before.