

ASDV 2620 Lab Navigation II

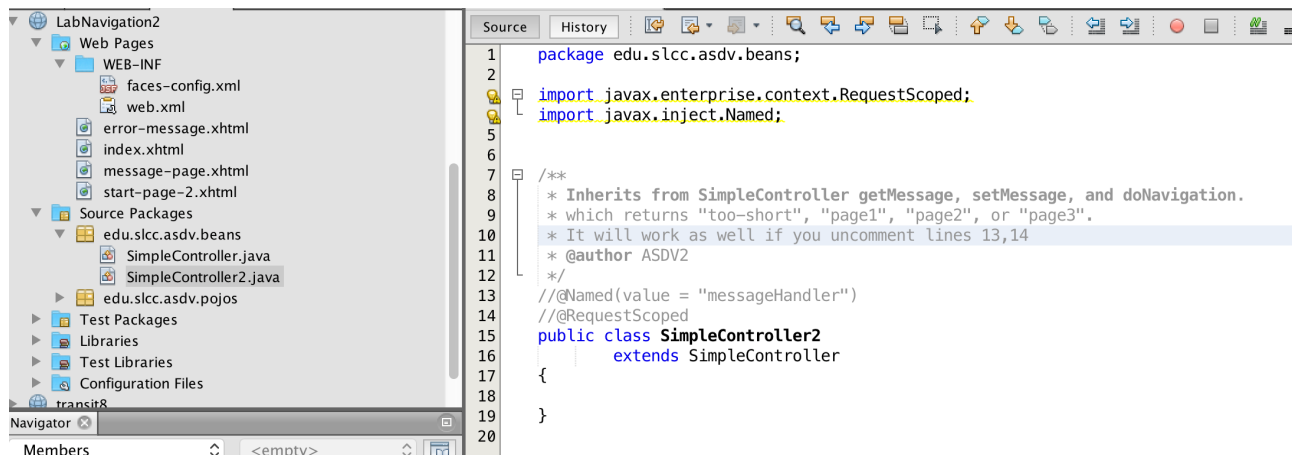
Explicit Bean Declarations

- Simpler/faster to start with
- Java developer knows the bean name
- The explicit declarations in faces-config.xml make it easier for facelets developer to find bean
- Can use multiple instances of the same bean class in the same page.
- Can use same class in different pages with different scopes
- Better understanding of beans used in project
- One central file lists all managed beans

Practice

We will use the previous lab and REMAP page1, page2, page2 into the same page if the message entered by user is more than 2 characters, else go to error page.

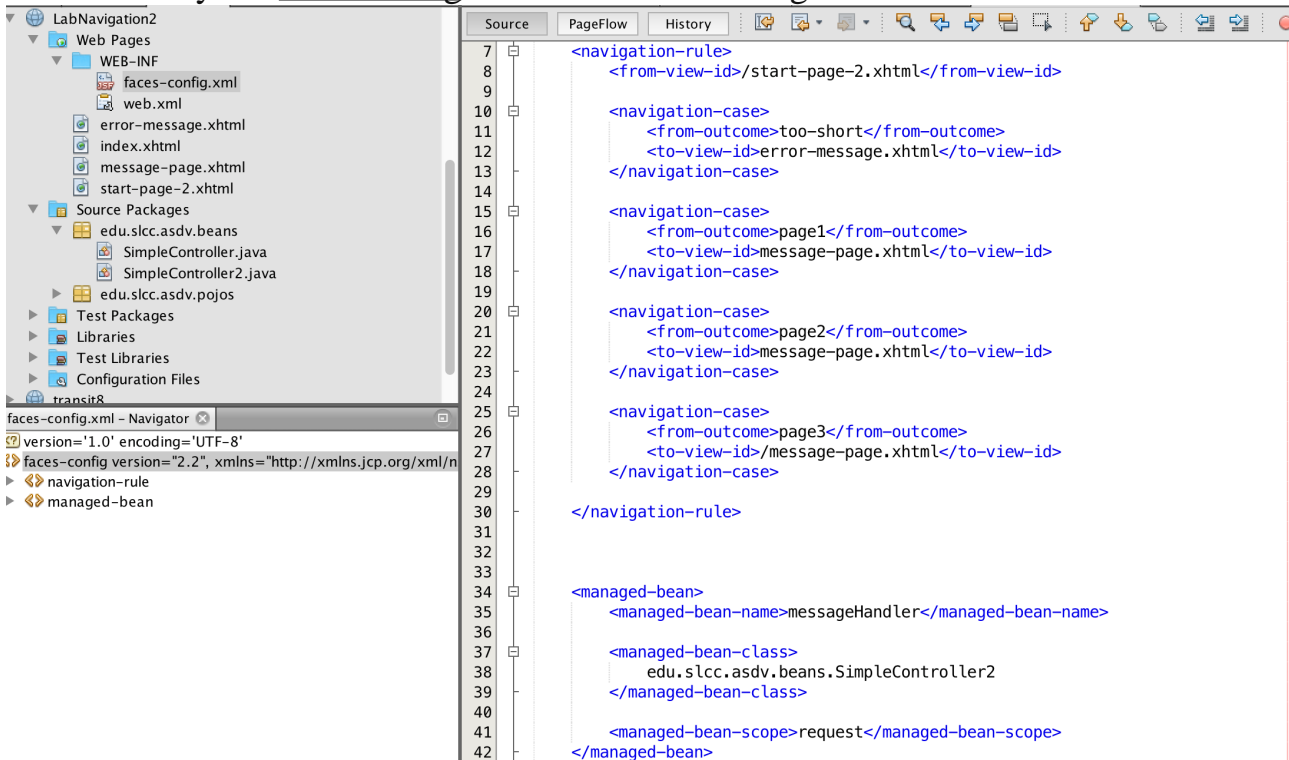
1. Copy and paste the previous lab into LabNavigation2.
2. Create a managed bean, call it SimpleController2. Comment out lines 13, 14 as shown.



The screenshot shows an IDE window with a project structure on the left and a Java source file on the right. The project structure includes a 'Web Pages' folder with 'faces-config.xml' and 'web.xml', and a 'Source Packages' folder with 'edu.sbcc.asdv.beans' containing 'SimpleController.java' and 'SimpleController2.java'. The Java source file 'SimpleController2.java' contains the following code:

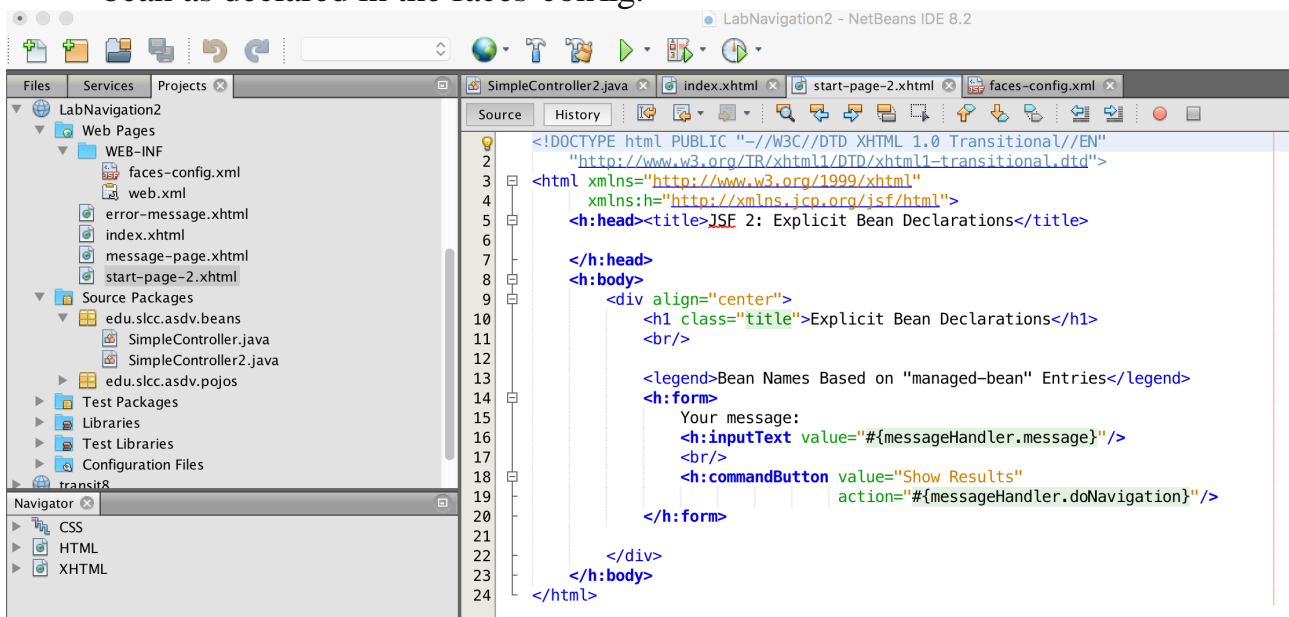
```
1 package edu.sbcc.asdv.beans;
2
3 import javax.enterprise.context.RequestScoped;
4 import javax.inject.Named;
5
6
7 /**
8  * Inherits from SimpleController getMessage, setMessage, and doNavigation.
9  * which returns "too-short", "page1", "page2", or "page3".
10  * It will work as well if you uncomment lines 13,14
11  * @author ASDV2
12  */
13 // @Named(value = "messageHandler")
14 // @RequestScoped
15 public class SimpleController2
16     extends SimpleController
17 {
18
19 }
20
```

3. Modify the `faces-config` file and add the managed bean.



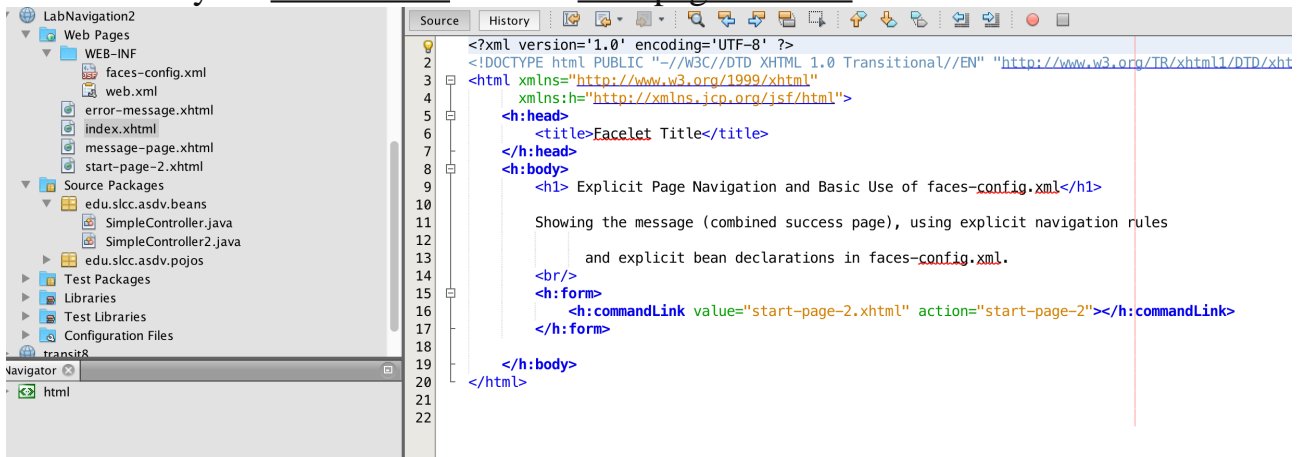
```
7 <navigation-rule>
8   <from-view-id>/start-page-2.xhtml</from-view-id>
9
10 <navigation-case>
11   <from-outcome>too-short</from-outcome>
12   <to-view-id>error-message.xhtml</to-view-id>
13 </navigation-case>
14
15 <navigation-case>
16   <from-outcome>page1</from-outcome>
17   <to-view-id>message-page.xhtml</to-view-id>
18 </navigation-case>
19
20 <navigation-case>
21   <from-outcome>page2</from-outcome>
22   <to-view-id>message-page.xhtml</to-view-id>
23 </navigation-case>
24
25 <navigation-case>
26   <from-outcome>page3</from-outcome>
27   <to-view-id>/message-page.xhtml</to-view-id>
28 </navigation-case>
29
30 </navigation-rule>
31
32
33
34 <managed-bean>
35   <managed-bean-name>messageHandler</managed-bean-name>
36
37   <managed-bean-class>
38     edu.sbcc.asdv.beans.SimpleController2
39   </managed-bean-class>
40
41   <managed-bean-scope>request</managed-bean-scope>
42 </managed-bean>
```

4. `start-page-2.xhtml`, replaces `start-page-1.xhtml`. Here we use the name of the bean as declared in the `faces-config`.

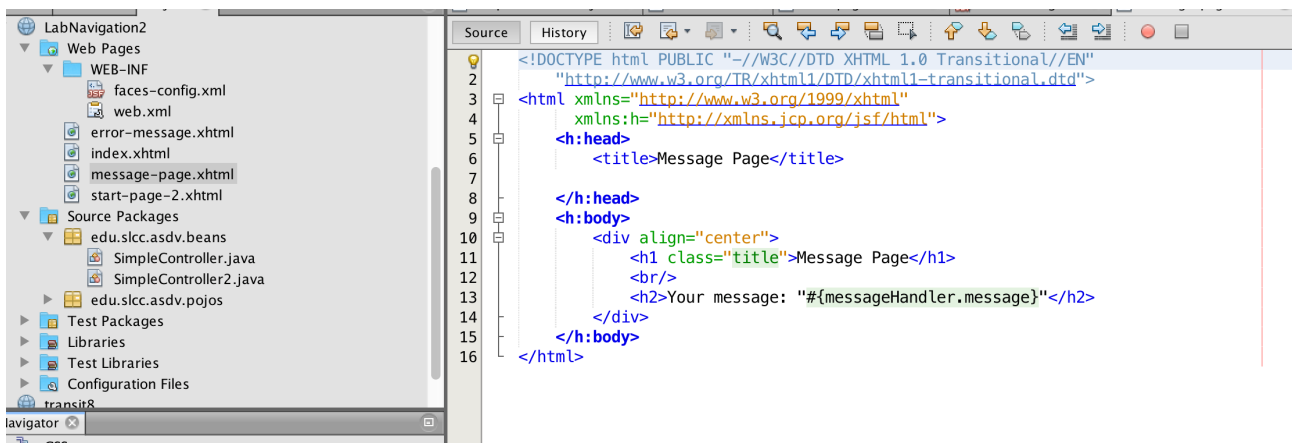


```
1 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
2   "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
3 <html xmlns="http://www.w3.org/1999/xhtml"
4   xmlns:h="http://xmlns.jcp.org/jsf/html">
5   <h:head><title>JSF 2: Explicit Bean Declarations</title>
6
7   </h:head>
8   <h:body>
9     <div align="center">
10      <h1 class="title">Explicit Bean Declarations</h1>
11      <br/>
12
13      <legend>Bean Names Based on "managed-bean" Entries</legend>
14      <h:form>
15        Your message:
16        <h:inputText value="#{messageHandler.message}"/>
17        <br/>
18        <h:commandButton value="Show Results"
19          action="#{messageHandler.doNavigation}"/>
20      </h:form>
21
22    </div>
23  </h:body>
24 </html>
```

5. From your index.xhtml call the start-page-2.xhtml.



6. Delete result-page-1.xhtml, result-page-2.xhtml, result-page-3.xhtml and replace them with one page message-page.xhtml.



7. Clean build and run.