Explicit navigation

faces-config.xml

- Location
  - WEB-INF/faces-config.xml
- Purposes
  - Declare navigation rules
    - Map return conditions to results pages
  - Declare beans
    - Map bean names to bean classes
  - Inject bean properties
  - Define properties files
  - Declare Locales
  - Register validators and renderers
  - Register custom components

Navigation rules

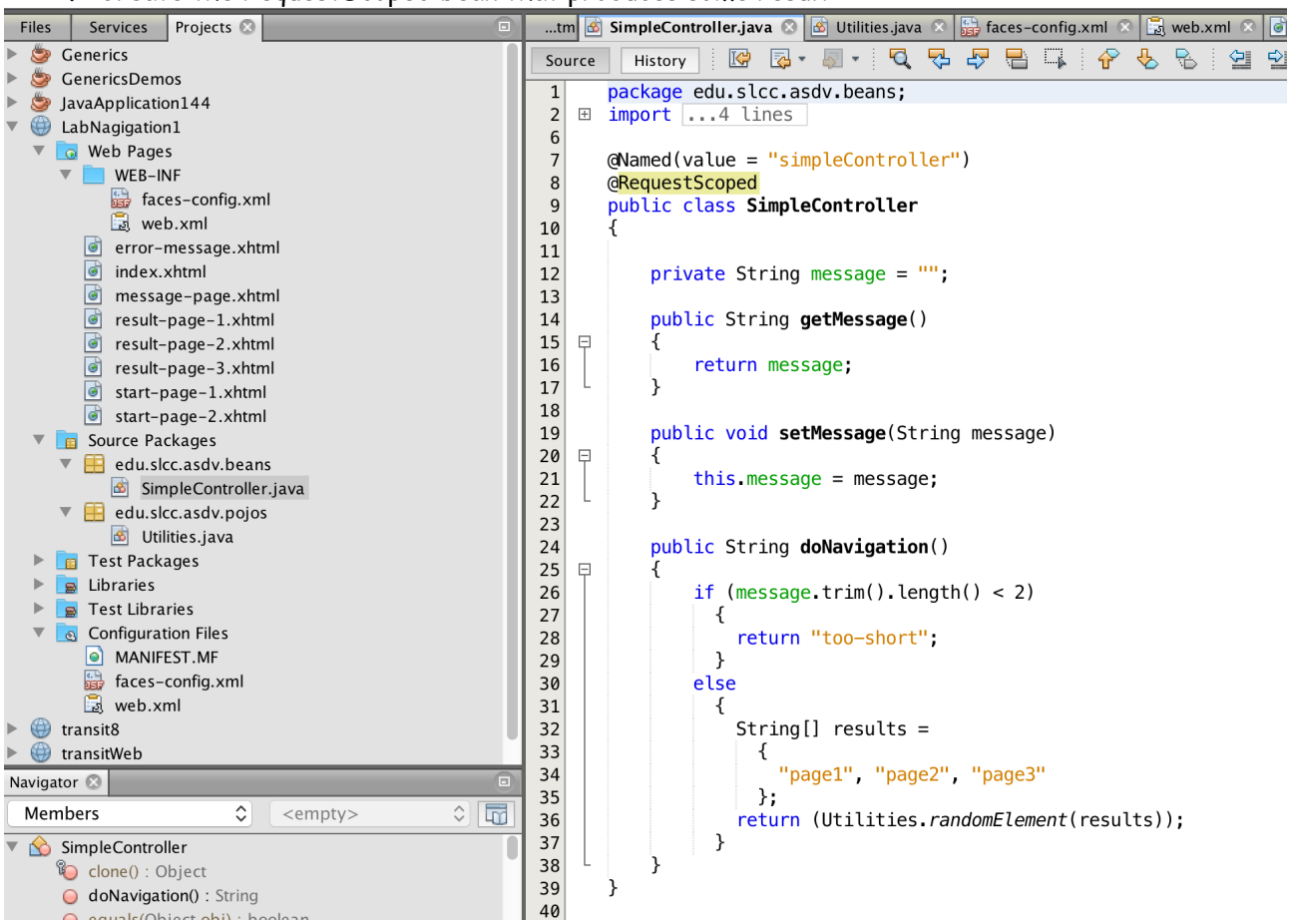
```
<navigation-rule>
        <from-view-id>/some-start-page.xhtml</from-view-id>

        <navigation-case>
                <from-outcome>return-condition-1from controller</from-outcome>
                <to-view-id>/result-page-1.xhtml</to-view-id>
        </navigation-case>
       ......
        More navigation-case entries for other conditions
</navigation-rule>
```

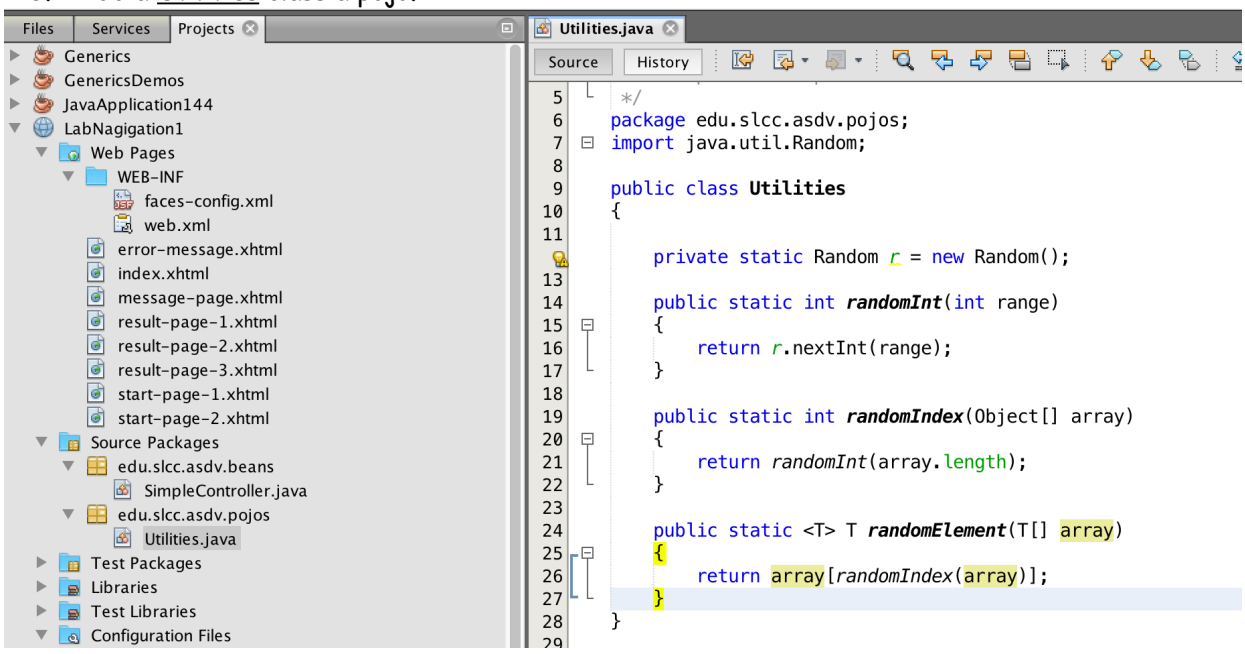
Practice Example

- What we will do in this practice
  - Collect a message from user, have the controller (in bean) generate a random page as a result . Then use the random page to navigate to one of three possible navigation- pages which will display the message.
  - If the message is missing or only one character long, show an error page
- Implementation
  - Action controller returns four possible strings: page1, page2, page3, and too-short
  - Navigation rules in faces-con fig.xml **map** each of those returns of controller to exact results page

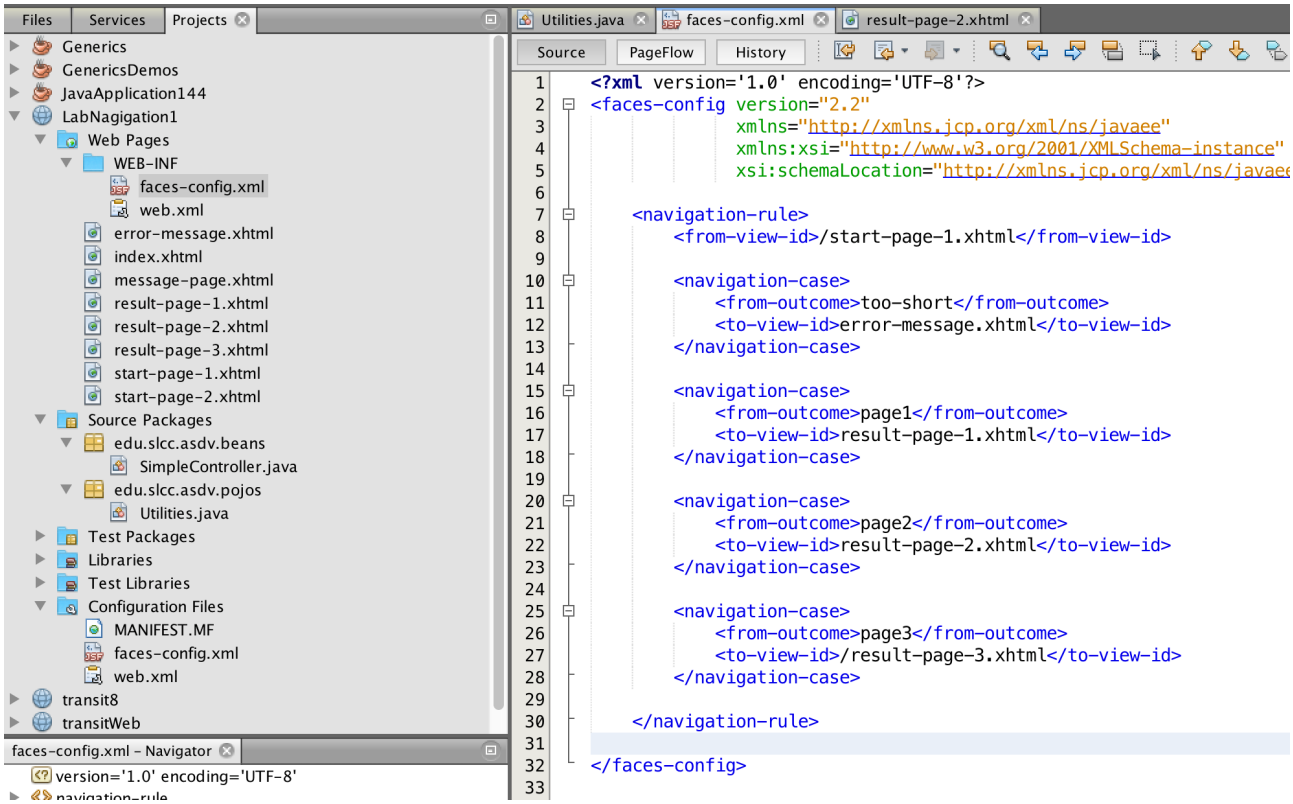
1. Create a new Web App, LabNavigation1
2. Create the RequestScoped bean that produces some result



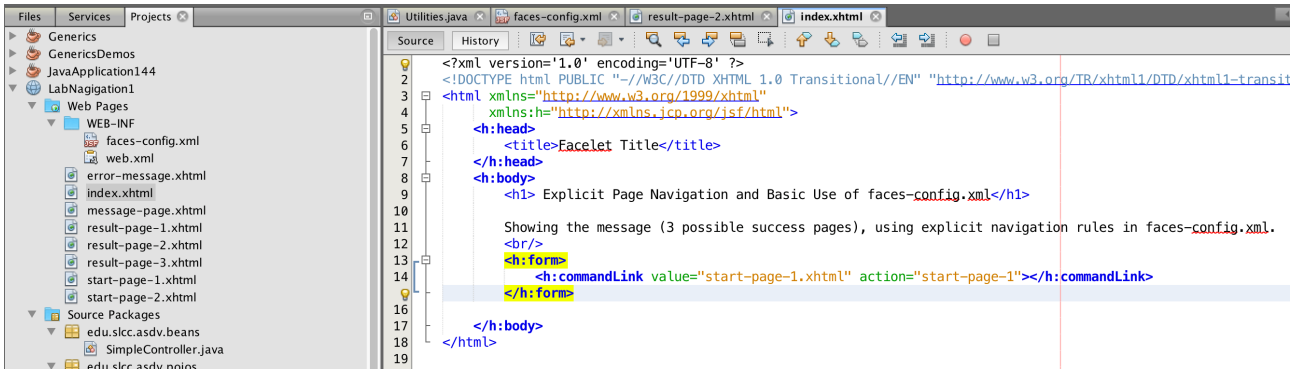
3. Add a Utilities class a pojo.



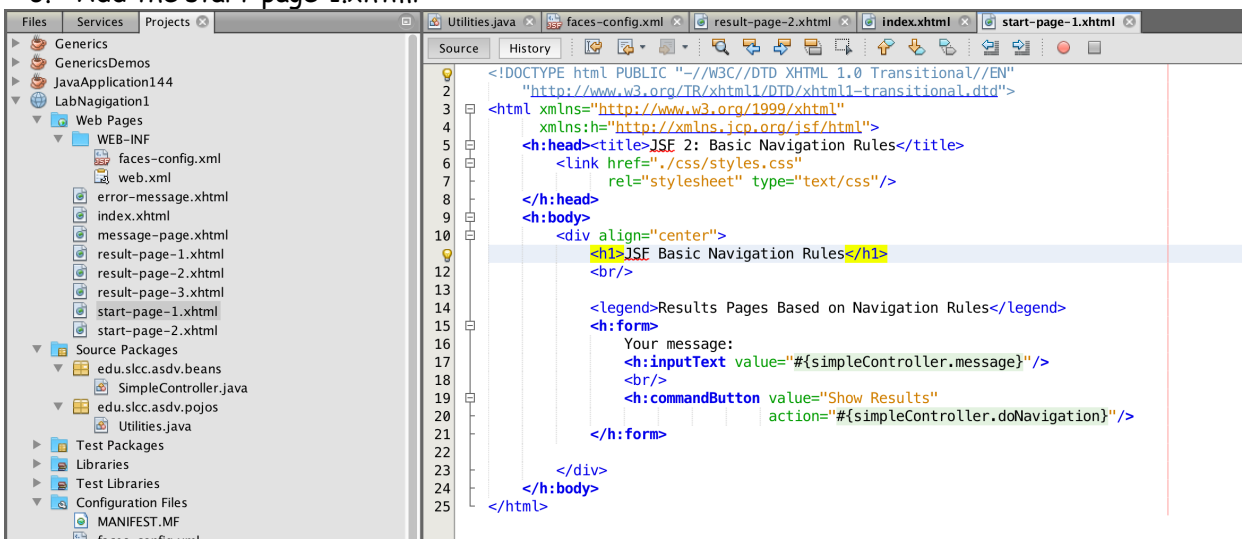
4. Create the faces-config.xml file and add the navigation shown.
   Click: (New/Other/JavaServer Faces/JSF Pages Configuration)



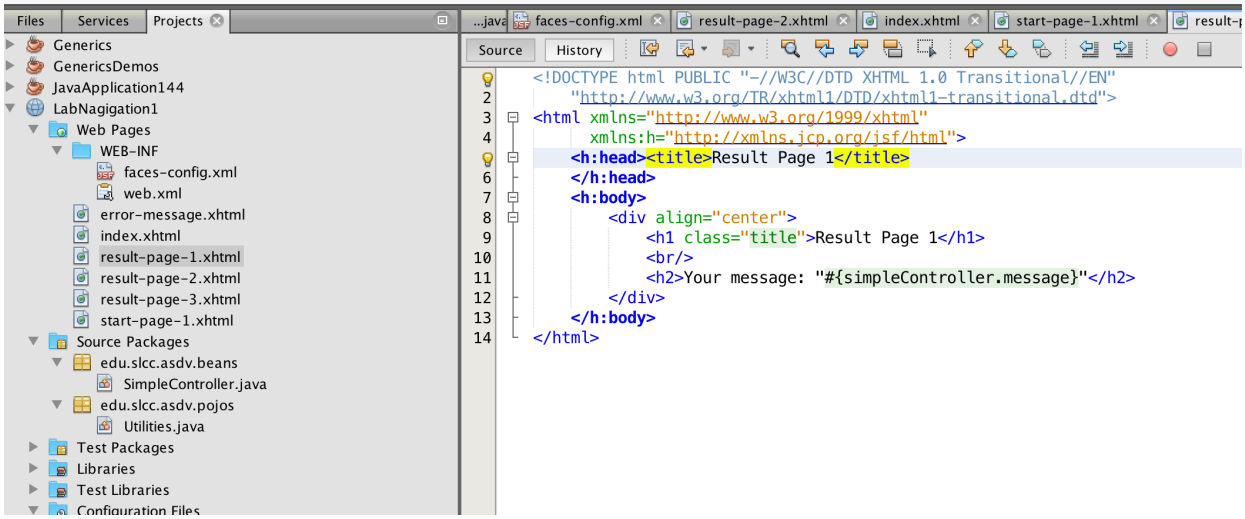
5. Add the index.xhtml



6. Add the start-page-1.xhtml

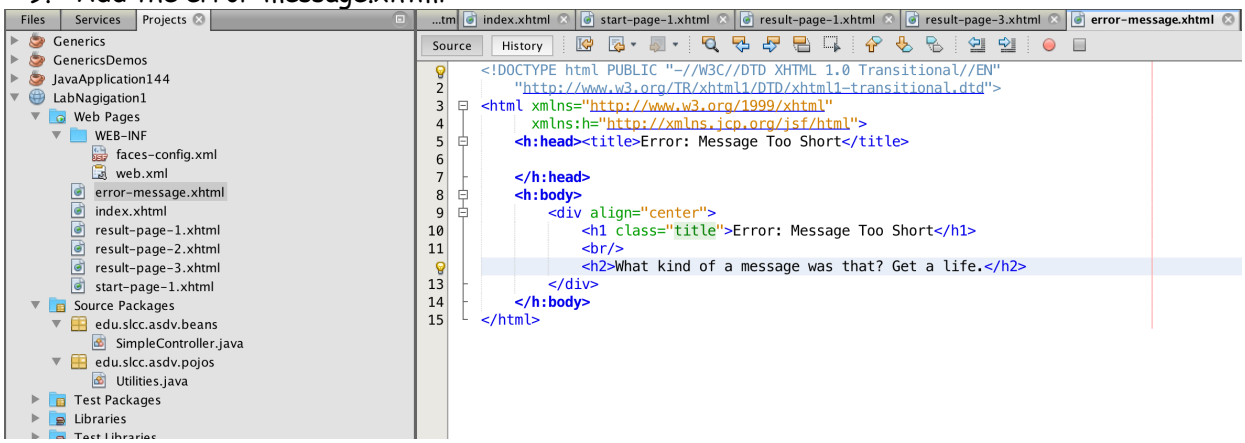


7. Add result-page-1.xhtml



8. Similarly, add result-page-2.xhtml and result-page-3.xhtml

9. Add the error-message.xhtml



10. Clean build and run.