Web App Dev II Templates I

Basic template-mechanism

- Template file
- Client file

Basic Steps

- 1. Define a template file
 - 1. Content that will appear in all clients is entered directly
 - 2. Content that can be replaced in client files is marked with *ui:insert* (with default values in case client does not supply content)
- 2. Define a client file that uses the template
 - 1. Use *ui:composition* to specify the template file used
 - 2. Use *ui:define* to override content for each replaceable section in template (marked in template with *ui:insert*).
- 3. Access the client file via the browser as Users never access template files directly.

How to design a Template File:

- Insert shared content literally
 - ✓ If you have HTML or JSF data that will be used by all clients, place it directly in template file
 - ✓ Everything can be used in template: Normal *JSF elements*, Regular *HTML*, *EL* (expression language), h:dataTable, ui:repeat, etc.
- Mark replaceable sections with ui:insert
 - ✓ Give a *name* to the section (client will refer to name)
 - ✓ Put default content between <ui:insert...> and </ui:insert>
 - If clients don't supply anything for name, they get default
- Put template files in separate folder, so they won't be confused with user-accessible files.

Practice

1. New Web App lab01Templates1

2. CDI Bean:

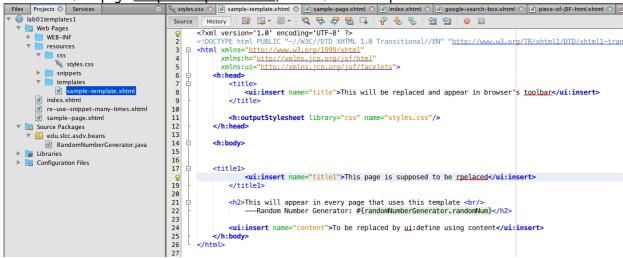
```
Files Projects Services
                         🕝 index.xhtml 🗵 🎯 sample-template.xhtml 🗵 🍇 styles.css 🗵 🔞 sample-page.xhtml 🗵 🙆 RandomNumberGenerator.java 🔕
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                         Source History 👺 👨 🔻 👨 🔻 🔁 📮 🖟 各 🔁 🛂 🔴 🕒 🏥
 WEB-INF
                                package edu.slcc.asdv.beans;
     resources
                          2
                             ⊞ import ...2 lines
     ▼ 📋 css
         ៃ styles.css
                          4
       templates
                          5
                                @Named(value = "randomNumberGenerator")
        sample-template.xhtml
     index.xhtml
                           6
                                @RequestScoped
     sample-page.xhtml
                          7
                                public class RandomNumberGenerator
 edu.slcc.asdv.beans
                          8
       RandomNumberGenerator.j
 ▶ □ Libraries
                          9
 Configuration Files
                                      public RandomNumberGenerator()
                         10
                         11
                             {
                                      }
                         12
                         13
                         14
                                     public double getRandomNum()
                             15
                                           return Math.random();
                         16
                         17
Navigator 🛇
                         18
                                }
```

3. CSS: styles.css

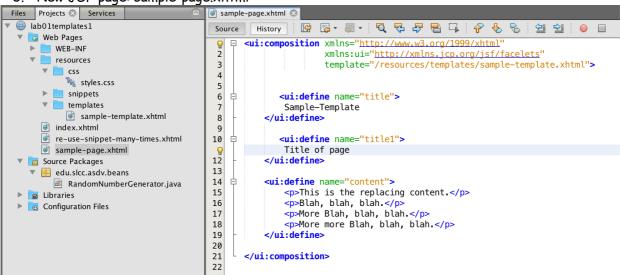
```
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 ▼ 🗓 Web Pages
                                               body {
       WEB-INF
                                                   font-family: Comic Sans MS, Arial, Helvetica, sans-serif;
        resources
                                         3
                                                   background-color: #e9e9e9;
          css
           ী styles.css
                                         5
                                               a:hover { color: red }
          snippets
templates
                                            □ h1,h2,h3 {
                                         6
                                                   text-align: center;
           sample-template.xhtml
                                                   font-family: Comic Sans MS, Arial, Helvetica, sans-serif;
                                         8
      index.xhtml
                                                   color: black;
                                         9
                                              }
      re-use-snippet-many-times.xhtml
                                        10

    title1 {
      sample-page.xhtml
                                        11
                                                   display: table;
 ▼ 💼 Source Packages
                                        12
                                        13
                                                   margin: auto;
     edu.slcc.asdv.beans
        RandomNumberGenerator.java
                                        14
                                                   background-color: yellow;
                                                   font-family: Comic Sans MS, Arial, Helvetica, sans-serif;
                                        15
 16
                                                   font-size: xx-large;
 Configuration Files
                                                   padding: 5px 8px;
                                        17
                                                   letter-spacing: - 025em;
                                        18
                                              }
                                        19
                                            □ .white { color: white;
                                        20
                                                        font-family: Comic Sans MS, Arial, Helvetica, sans-serif;
                                        21
                                        22
                                                        font-size: 80%;
                                                        font-weight: bold;
                                        23
                                                        text-decoration : none;
                                        24
                                        25
                                               .dark { background-color: black; }
                                        26
```

4. New JSF page: sample-template.xhtlm, under folder templates



5. New JSF page: sample-page.xhtml



6. index

```
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```

7. Clean, build and run.

