Expression Language, EL II

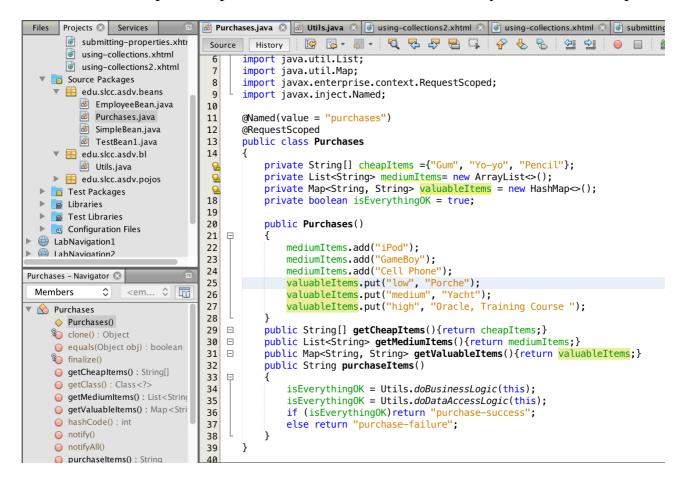
Accessing Collections Equivalence of Dot and Array Notations

- Equivalent forms
 - #{name.property}
 - Legal ONLY if "property" is **LEGAL** Java variable name
 - #{name["property"]}
- Reasons for using bracket notation
 - To access arrays, lists, and other collections
 - To calculate the property name at request time.
 - #{name1[name2]} (no quotes around name2)
 - To use names that are **ILLEGAL** as Java variable names
 - #{foo["bar-baz"]}
 - #{foo["bar.baz"]}
- 1. Copy LabeEL1 and rename it LabEL2

2. Create a <u>Utils</u> class under the business logic package

```
⊕ LabEL2
                                     package edu.slcc.asdv.bl;
Web Pages
▼ 🛅 Source Packages
                                  □ import edu.slcc.asdv.beans.Purchases;
   edu.slcc.asdv.beans
       EmployeeBean.java
                                5
                                     public class Utils
       Purchases.java
                                6
       SimpleBean.java
                                7
                                         public static boolean doBusinessLogic(Purchases bean)
       TestBean1.java
                                8
   edu.slcc.asdv.bl
                                             // Business logic not implemented
                               9
       🖄 Utils.java
                               10
                                             return (Math.random() > 0.1);
   edu.slcc.asdv.pojos
                               11
                                         public static boolean doDataAccessLogic(Purchases bean)
  Test Packages
                              12
                              13 □
Libraries
                                             // Database access not implemented
                               14
 📘 Test Libraries
                               15
                                             return (Math.random() > 0.1);
Configuration Files
                              16
 LabNavigation1
                               17
LabNavigation2
                                     }
                               18
```

3. Create a request scoped bean <u>Purchases</u> that has an Array, a List and a Map.



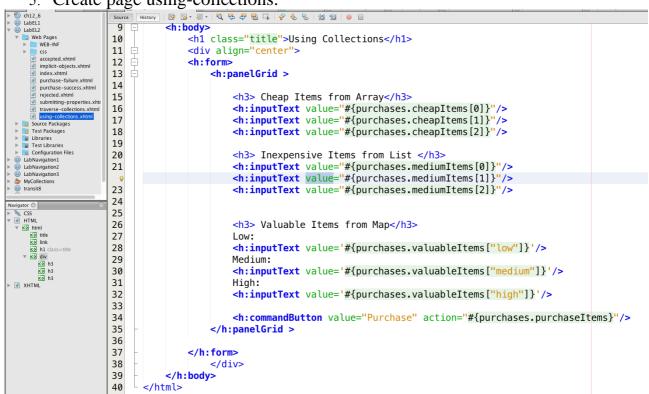
4. Add JSF pages <u>purchase-success.xhtml</u> and <u>purchase-failure.xhtml</u>.

```
<html xmlns="http://www.w3.org/1999/xhtml"</pre>
                                                                                                                                                                                                                                                                                           <html xmlns="http://www.w3.org/1999/xhtml"
    xmlns:h="http://xmlns.jcp.org/jsf/html">
                              xmlns:h="http://xmlns.jcp.org/jsf/html"
                                                                                                                                                                                                                                                                                                        <h:head>
<title>Failure</title>

<
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                                                                                                                                                                                                                                                                                                                                 <b>Cheap Items</b>
                                                                                                                                                                                                                                                                                                                                              *\li>#\{purchases.cheapItems[1]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purchases.cheapItems[2]\}\{\li>#\{purcha
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                                                                                                                                                                                                                                                                                                                                               </nl>
                                                                                                                                                                                                                                                                                                                                 >b>Medium Items
<0!>
#{purchases.mediumItems[0]}

                                                         <b>Medium Items</b>
                                                                                                                                                                                                                                                                                                                                              #{purchases.mediumItems[0]}
                                                                                  #{purchases.mediumItems[1]}
                                                                                   #{purchases.mediumItems[2]}
                                                                       </li
                                                                                                                                                                                                                                                                                                                                  <b>Valuable Items</b>
                                                          <b>Valuable Items</b>
                                                                                                                                                                                                                                                                                                                                                          \li> (li> Low: #{purchases.valuableItems["low"]} \li> (li> Medium: #{purchases.valuableItems["medium"]} \li> #{purchases.valuableItems["high"]}
                                                                                  </ht>
                                                                                                                                                                                                                                                                      31
32
33
                                                                                                                                                                                                                                                                                                         </h:body
```

5. Create page using-collections.



6. Call it from index

```
<h:form>
<h:form>
<h:form>
<h:form>
</h:form>
</h:form>
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```