# Date 14/5/2023

# CSM3023

# WEB BASED APPLICATION DEVELOPMENT

DR FAIZAH BINTI APLOP

OMAR ISMAIL ABDJALEEL ALOMORY

*LAB 3(MP2)* 

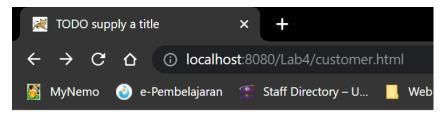
# Task 1: Using JSP Scripting

# Compiled successfully (processCusotmer.jsp).



Customer

# Output.



# **Use JSP Scriplet and JSP Express**

# Customer discount

Customer Code	Key-in customer code	•
Quantity	Key-in quantity	
Customer Type	O Normal Custome	r O Privilege
Submit Cance		
Process Cu	stomer Page	× +
← → G	△ ① localhos	st:8080/Lab4
MyNemo	🕑 e-Pembelajaran	Staff Dir
You're entitle109	\ <u>\</u>	

### Reflection:

# 1. What you have learnt from this exercise?

We have learnt how to use jsp scriptlet to deal with client request and process the logic (if, else, etc), then display the required info back to the client.

# 2. Explain three (3) type of JSP scripting?

```
1. Scriptlet:

<%
    String message = "Hello, World!";
    out.println(message);

%>
2. Declaration:

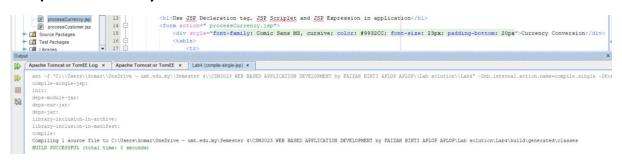
<%!
    private String name = "John Doe";
    public void greet() {
        out.println("Hello, " + name + "!");
    }

%>
3. Expression:

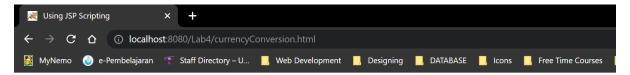
</pr>
```

# Task 2: Using JSP (Scripting, Declaration and Expression)

# **Complied Successfully.**



# Output.



# Use JSP Declaration tag, JSP Scriplet and JSP Expression in application

Currency Co	onversion
Amount (in RM) Convert to	1000 Euro V
Submit Cancel	



Use JSP Declaration tag, JSP Scriplet and JSP Expression in application

Amount in Ringgit Malaysia is RM1000 Amount in Euro is RM223.71

### Reflection:

# 1. What have you learn from this exercise?

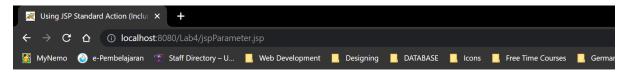
I have learned how to get the client information from HTML file to JSP file, then processing the information (do calculation) using JSP Declaration to declare method for processing request parameters, then using JSP Scriptlet to display and format the output, finally, use JSP Expression to assign the result to the output dynamically.

# Task 3: Using JSP Standard Action (Include and Param)

# **Compiled Successfully.**

ant -f "C:\\Users\\komar\\OneDrive - umt.edu.my\\Semester 4\\CSM3023 WEB BASED AFFLICATION DEVELOPMENT by FAIZAH BINTI AFLOP AFLOP\\Lab solution\\Lab4" -Dmb.internal.action.name=compile.single -Dfc compile-single-jsp:
init:
deps-module-jar:
deps-lar:
deps-lar:
deps-lar:
deps-lar:
ibrary-inclusion-in-archive:
iibrary-inclusion-in-manifest:
compile:
Compiling 1 source file to C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3023 WEB BASED AFFLICATION DEVELOPMENT by FAIZAH BINTI AFLOP AFLOP\Lab solution\Lab4\build\generated\classes
BUILD SUCCESSFUL (total time: 0 seconds)

### Output.



# Using jsp:include and jsp:param to display information on JSP page Calling subjectInfo.jsp page

Code = CSM 3023 Subject = Web Programming Credit = 3(2+1)

### Reflection:

# 1. What you have learnt from this exercise?

I have learnt how to use JSP Standard Action (Include and Param). First we initialized some parameters in the first page, then we used JSP Standard Action (include) to include these parameters in the second page so that we can call them, we attach the parameters to the next page by calling <jsp:include page="subjectInfo.jsp" flush="true">, then we assign each value to its variable <jsp:param name="code" value="<%=sCode%>" /> , etc. Finally we closed the include tag </jsp:include>.

### 2. List TWO (2) other JSP Standard Action Tag.

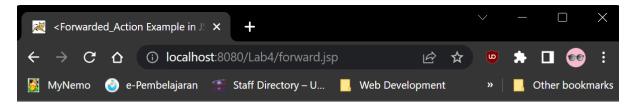
- <jsp:forward>: The <jsp:forward> tag is used to forward the request to another resource, such as another JSP page, servlet, or HTML file. It allows you to redirect the control from one resource to another, and the response is sent back to the client as if the client had requested the forwarded resource directly.
- <jsp:useBean> : The <jsp:useBean> tag is used to instantiate and manage JavaBeans within a JSP page. JavaBeans are reusable Java components that encapsulate data and behavior. The <jsp:useBean> tag allows you to create an instance of a JavaBean or retrieve an existing instance from a scope (such as request, session, or application scope) and make it available for use within the JSP page.

# Task 4: Using JSP Standard Action (Forward)

# **Compiled Successfully.**

```
ant -f "C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSH3023 WEB BASED APPLICATION DEVELOPMENT by FAIZAH BINTI AFLOP APLOP\Lab solution\\Lab4" -Dmb,internal.action.name=compile.single -Dfot compile-single-jap:
init:
deps-module-jar:
deps-ar-jar:
deps-ar-jar:
library-inclusion-in-archive:
library-inclusion-in-archive:
library-inclusion-in-manifest:
compilie:
Compilie:
Compilie: 1 source file to C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSH3023 WEB BASED APPLICATION DEVELOPMENT by FAIZAH BINTI AFLOP APLOP\Lab solution\Lab4\build\generated\classes
BUILD SUCCESSFUL (total time: 0 seconds)
```

### Output.



# Fouad Abdulameer fouadaug@gmail.com Iraqi Developer

Today is:Sun May 14 19:28:38 SGT 2023

### Reflection:

### 1. What you have learnt from this exercise?

I have learnt how to use JSP action tag jsp:forward to forward information from a page to another. The syntax is as include tag. But here we are terminating the current stream flow to another JSP page with the specified parameters.

# 2. List TWO(2) More JSP Standard Action Tag.

- <jsp: setProperty>: set the value of property in beans object.
- <jsp: getProperty>: print the value of property in beans object.
- <jsp: param>: sets the parameter value. It is used in forward and include mostly.

# **Task 5: Use Java Scriptlet to Construct Business Logic.**

# **Compiled Successfully.**

ant -f "C:\\Users\\komar\\OneDrive - umt.edu.my\\Semester 4\\CSM3023 WEB BASED APPLICATION DEVELOPMENT by FAIZAH BINTI APLOP APLOP\\Lab solution\\Lab4" -Dnb.internal.action.name=compile.single -Dfc compile-single-jsp:
Company Canger Jupy.
deps-module-jar:
deps-ear-jar:
deps-jar:
library-inclusion-in-archive:
library-inclusion-in-manifest:
compile:
Compiling 1 source file to C:\Users\komar\OneDrive - umt.edu.my\Semester 4\CSM3023 WEB BASED APPLICATION DEVELOPMENT by FAIZAH BINTI APLOP APLOP\Lab solution\Lab4\build\generated\classes
BUILD SUCCESSFUL (total time: 0 seconds)

# Output.

# **Insurance Quotation**

Insurance Calculation	n—————————————————————————————————————
ICNo	870510-11-2167
Name	Mohd Razail Abdullah
Market Price	40000
Coverage Type	Comprehensive
No claims discount (claim)	<b>35</b> % <b>▽</b>
Submit Cancel	

# -Details of Insurance Quotation-

IC No: 870510-11-2167

Customer Name: Mohd Razail Abdullah

Market Price: 40000

Coverage Type : Comprehensive

No claim discount (NCD): 35%

Insurance amount: 960.00

6% GST: 57.60

Final amount (with 6% GST): 1017.60

### Reflection:

### 1. What you have learnt from this exercise?

In this task, I have learnt how to use all JSP Scripting Elements to produce dynamic output to the client based on choices he/she chooses. The output will always change if the input parameters changed.

# 2. List all Java features you used in Java Scriptlet.

### **Expression**

### **Declaration**

```
//Define method to calculate the insurance quotation. ..
private double calculateRate(String coverageType, String cDiscount, int price) {
   double insurance = 0.00f;
    if (coverageType.equals("1")) {
       if (cDiscount.equals("1"))
            insurance = (double) (0.033 * price);
       if (cDiscount.equals("2"))
           insurance = (double) (0.025 * price);
       if (cDiscount.equals("3"))
           insurance = (double) (0.018 * price);
       if (cDiscount.equals("4"))
            insurance = (double)(0.012 * price);
       if (cDiscount.equals("1"))
            insurance = (double) (0.038 * price);
       if (cDiscount.equals("2"))
            insurance = (double) (0.03 * price);
       if (cDiscount.equals("3"))
            insurance = (double)(0.024 * price);
       if (cDiscount.equals("4"))
            insurance = (double) (0.018 * price);
    return insurance; //return the result...
```

### Scriptlet.

```
String icNo = request.getParameter("ic");
String name = request.getParameter("name");
int pricel = Integer.parseInt(request.getParameter("price"));
String covType = request.getParameter("coverageType").equals("l")? "Third Party":"Comprehensive";
String cDis = request.getParameter("cDiscount");
double gst = calculateRate(covType, cDis, pricel) * 0.06;
double total = gst + calculateRate(covType, cDis, pricel);
```

# **Lab Exercise**

**Compiled Successfully.** 

# Output.

leight: 1.7 M	ETER
Submit Cancel	

# Body Mass Index (BMI) Calculator Your Weight: 65.0 kg Your Height: 1.7 m Your BMI: 22.49 Weight Status: Optimal