

CSM3023 WEB BASED APPLICATION DEVELOPMENT (K1)

BACHELOR OF COMPUTER SCIENCE (MOBILE COMPUTING) WITH HONORS

SEMESTER II 2023/2024

LAB 3 – JSP: Scriplet, Page Directive & Include Directive

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Link Github: https://github.com/Izzulwafiy03/LAB3WEB.git

Task 1 memberRegister.jsp

memberProcessing.jsp

Passing data from main JSP's page to other JSP's page

Member Registration		
Ic No * 030617140423		
Name Haris		
Submit Cancel		

Passing data from main JSP's page to other JSP's page

Thank you for registering in this event!			
This is your details;			
IC No: 030617140423			
Name : Haris			

Reflection

1. How do you want to submit specific information from one form to next form?

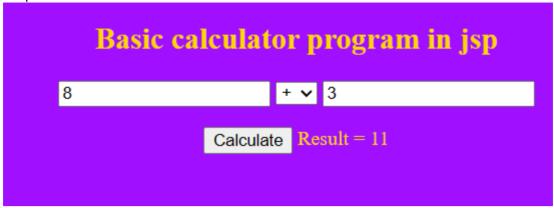
To submit specific information from one form to the next form in JSP, you can use the "action" attribute of the <form> tag in the first JSP page to specify the URL of the second JSP page where you want to submit the form data.

2. What happened if the field name you specify in request.getParameter("field_name") in second page is different from the field name you defined in first page?

The value returned by request.getParameter("field_name") will be null because it won't find a parameter with the specified name.

Task 2 Calculator.isp

```
<body bgcolor="#a00FFF" text="gold">
```



Reflection:

- 1. How do you want to submit specific information from one form to next form? Use the "method" attribute set to "get" in the <form> tag.
- 2. What happened if the field name you specify in request.getParameter("field_name") in second page is different from the field name you defined in first page?

 The value returned by request.getParameter("field_name") will be null because it won't find a parameter with the specified name.

Task 4 calculateCarLoan.html

```
Clock hbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
Click hbfs://nbhost/SystemFileSystem/Templates/JSP_Servlet/Html.html to edit this template
Click hbfs://nbhost/SystemFileSystem/Templates/JSP_Servlet/Html.html to edit this template

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Clabel for="loanPeriod" Doan Amount: Clabel

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processCalculateCarLoan.jsp

Car Loan Calculator

Loan Amount: 50000
Loan Period: <mark>7 years ✓</mark>
Calculate

Car Loan Result

Loan Amount: RM 50000

Loan Period: 7 years

Annual Interest Rate: 4.5%

Monthly Payment: RM 695.01

Total Loan (+interest): RM 58380.68

Reflection:

1. How you want to retrieve data from previous page? Retrieved using the request.getParameter() method.

2. Where the construction of logic occur for calculating Total Loan (+ interest)?

After retrieving the loan amount and loan period, the page calculates the annual interest rate based on the loan period. Then, it calculates the monthly interest rate, total number of months, and finally, the monthly payment using the formula for loan amortization.

Task 5

ArrayList.jsp

Output:

Use JSP Page Directive

The number of records in ArrayList are 6

Record 1 is Mohamad Azam

Record 2 is Peter Chong

Record 3 is Rahimah Mansor

Record 4 is Sri Devi

Record 5 is Ng Hue Ween

Record 6 is S. Nagarajan

Reflection:

- 1. What you have learnt from this exercise?

 <u>I learned how to utilize Java ArrayList in JSP to store and manipulate data dynamically.</u>
- 2. Write a sample syntax how you want to use java Math object in JSP? <me><me> gage import="java.lang.Math"</m></me>
- 3. List and write a sample syntax for THREE (3) of JSP page directive. <%@page import="java.util.ArrayList"%>
- <%@page contentType="text/html" pageEncoding="UTF-8"%>
- <%@page language="java" %>

Task 6 mainPage.jsp

headerPage.jsp

footerPage.jsp

Output:

ABC Sdn Bhd

Java Server Page (JSP) is a technology for controlling the content or appearance of Web pages through the use of servlets, small programs that are specified in the Web page and run on the Web server to modify the Web page before it is sent to the user who requested it

Reflection:

- 1. What you have learnt from this exercise?

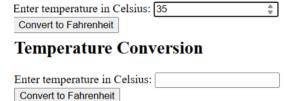
 This exercise demonstrates the usage of JSP include directive to modularize web pages by separating common elements such as header and footer into separate files.
- 2. Write a syntax how you want to include common.html file that located at a directory known as master.
- <@@ include file="master/common.html" %>

Exercise

1. temperature.jsp

Output:

Temperature Conversion



Temperature in Fahrenheit: 95.00

2. rectangle.jsp

```
<title>Rectangle Area Comparison</title>
</head>
       Width: <input type="number" step="any" name="width1" required><br>
       Length: <input type="number" step="any" name="length2" required><br>
       Width: <input type="number" step="any" name="width2" required><br>
       <input type="submit" value="Compare Areas">
           String result;
```

Rectangle Area Comparison

Rectangle 1:	
Length: 6	
Width: 8	
Rectangle 2:	
Length: 4	
Width: 9	\$
Compare Areas	

Rectangle Area Comparison

Rectangle 1:	
Length:	
Width:	
Rectangle 2:	
Length:	
Width:	
Compare Areas	

Rectangle 1 has a greater area.