



## Graded Lab Assignment 2 – CSF416\_Web Technologies and Applications, ODD Sem, 2024

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**Major: Btech - IT**

### Instructions

- There are **2** questions in this assignment.
- Email/paper/other modes of submissions will not be accepted.
- Upload a word **version** of this document.
- Assignment submitted after due date will not be evaluated and a score of zero will be awarded.
- Plagiarism may lead to award of zero marks.

**Due Date: 5pm, 28<sup>th</sup> October 2024**

### Submitting this Assignment

You will submit (upload) this assignment in MS Teams. Name this document as GLA1\_AJPODD2024\_John\_Doe.doc in case your name is John Doe, and this graded lab assignment is 1 of course whose acronym is AJP, and offered in ODD 2024. Paste your code after each question, paste the screenshot of output, save and upload the document.

**Grading Scheme:** This assignment has 5 marks.

### Question 1:

#### JSP with Include and Forward Directives

- Create a JSP page with a **header.jsp** (common header) and **footer.jsp** (common footer).
- Use **<jsp:include>** to include them in the main JSP page

### Question 2:

#### Form Handling in JSP

- Create a JSP page with a form to take user input (name and age).
- On submission, the page should display a greeting based on the user's age (e.g., "Hello, Youngster!" if age < 18).

Answer 1 : --

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```
<> demo.html <> main.jsp <> output.html <> header.jsp X <> footer.jsp <> index.html
<> header.jsp > html > body
1 <!-- header.jsp -->
2 <!DOCTYPE html>
3 <html lang="en">
4 <head>
5     <meta charset="UTF-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1.0">
7     <title>My JSP Page</title>
8     <link rel="stylesheet" href="styles.css">
9 </head>
10 <body>
11     <header>
12         <h1>Welcome to My Website</h1>
13         <nav>
14             <ul>
15                 <li><a href="index.jsp">Home</a></li>
16                 <li><a href="about.jsp">About</a></li>
17                 <li><a href="contact.jsp">Contact</a></li>
18             </ul>
19         </nav>
20     </header>
21
```

```
<> demo.html <> main.jsp <> output.html <> header.jsp <> footer.jsp X
<> footer.jsp > ...
1 <!-- footer.jsp -->
2 <footer>
3     <p>&copy; 2024 My Website. All rights reserved.</p>
4 </footer>
5 </body>
6 </html>
7
```

Main.jsp –

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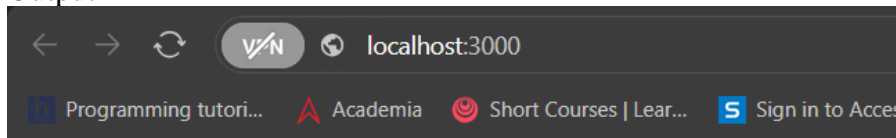
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```
<> demo.html <> main.jsp X <> output.html <> header.jsp <> footer.jsp
main.jsp > ?
1 <!-- main.jsp -->
2 <%@ page contentType="text/html; charset=UTF-8" language="java" %>
3 <jsp:include page="header.jsp" />
4
5 <main>
6     <h2>Main Content Area</h2>
7     <p>This is the main content of the page.</p>
8 </main>
9
10 <jsp:include page="footer.jsp" />
11
```

Output –



# Welcome to My Website

- [Home](#)
- [About](#)
- [Contact](#)

## Main Content Area

This is the main content of the page.

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Answer 2 :

```
<? demo.html <? main.jsp <? form.jsp X <? output.html <? header.jsp <? footer.jsp
<? form.jsp > <? > <? ?
1 <%@ page contentType="text/html; charset=UTF-8" language="java" %>
2 <%@ page import="java.io.*" %>
3 <!DOCTYPE html>
4 <html lang="en">
5 <head>
6     <meta charset="UTF-8">
7     <meta name="viewport" content="width=device-width, initial-scale=1.0">
8     <title>User Input Form</title>
9 </head>
10 <body>
11     <h1>User Input Form</h1>
12
13     <%
14         String name = request.getParameter("name");
15         String ageStr = request.getParameter("age");
16         String message = "";
17
18         if (name != null && ageStr != null) {
19             int age = Integer.parseInt(ageStr);
20             if (age < 18) {
21                 message = "Hello, Youngster!";
22             } else {
23                 message = "Hello, " + name + "!";
24             }
25         }
26     %>
27
28     <form method="post" action="form.jsp">
29         <label for="name">Name:</label>
30         <input type="text" id="name" name="name" required>
31         <br>
32         <label for="age">Age:</label>
33         <input type="number" id="age" name="age" required>
34         <br>
35         <input type="submit" value="Submit">
36     </form>
37
38     <% if (!message.isEmpty()) { %>
39         <h2><%= message %></h2>
40     <% } %>
41 </body>
42 </html>
43
```



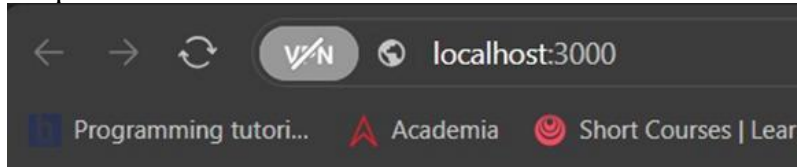
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Output –



## User Input Form

Name:

Age:

**Hello, Youngster!**