



Graded Lab Assignment 4 – CSF416_Web Technologies and Applications, ODD Sem, 2024

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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: 12pm, 5th November 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:

Session-Based Visit Counter

- Create a JSP page that keeps track of how many times a user has visited the page during the current session.
- Use session management to store the visit count and display it on the page.

Code:-

```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<%@ page session="true" %>
```

```
<!DOCTYPE html>
<html>
<head>
  <title>Visit Counter</title>
</head>
<body>
  <h1>Welcome to the Visit Counter Page!</h1>

  <%
    // Retrieve the visit count from the session
    Integer visitCount = (Integer) session.getAttribute("visitCount");

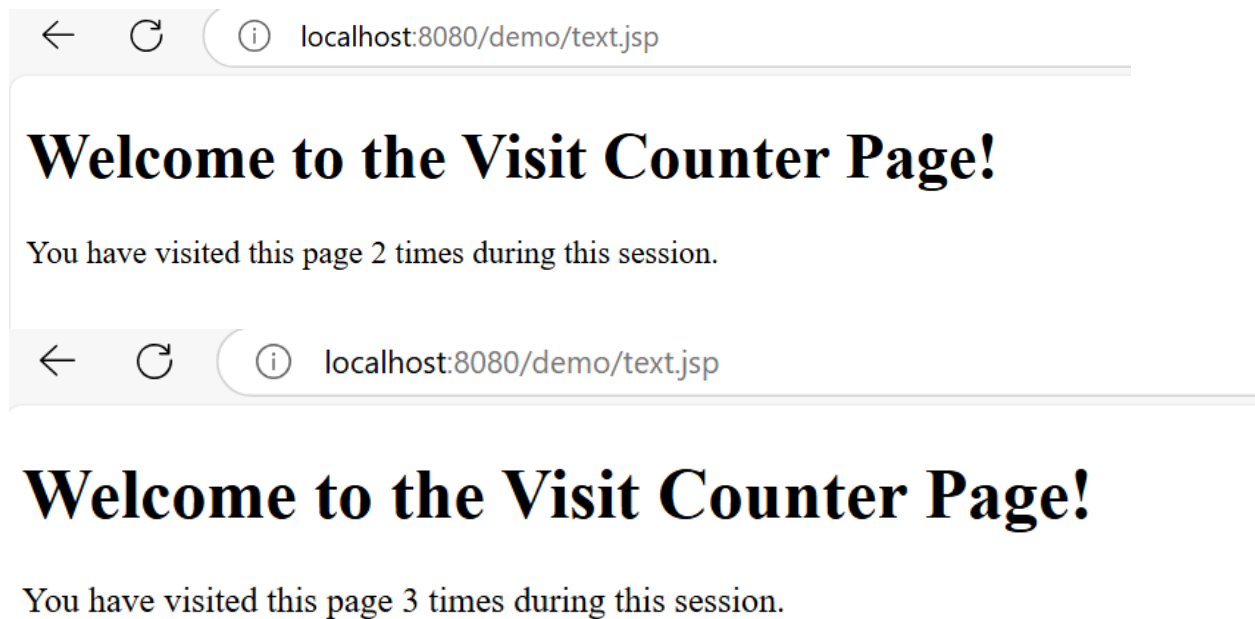
    // If visitCount is null, it means this is the user's first visit in this session
    if (visitCount == null) {
      visitCount = 1; // First visit
    } else {
      visitCount++; // Increment count on each visit
    }

    // Store the updated visit count back in the session
    session.setAttribute("visitCount", visitCount);
  %>

  <p>You have visited this page <%= visitCount %> times during this session.</p>
</body>
</html>
```

OUTPUT:-





Question:-2

To-Do List with Sessions

- Develop a JSP page where users can add items to a to-do list.
- Store the list in session data and display it on the page, allowing users to see their list as they add items.

Code:-

```
<% @ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"% >
<% @ page session="true" %>
<% @ page import="java.util.ArrayList" %>
<!DOCTYPE html>
<html>
<head>
    <title>To-Do List</title>
</head>
<body>
    <h1>My To-Do List</h1>

    <form action="ToDoList.jsp" method="post">
```

```

        <label for="todoItem">Add Item:</label>
        <input type="text" id="todoItem" name="todoItem" required />
        <input type="submit" value="Add" />
    </form>

    <%
        // Retrieve the existing list from the session, or create a new one
        ArrayList<String> todoList = (ArrayList<String>) session.getAttribute("todoList");
        if (todoList == null) {
            todoList = new ArrayList<String>();
        }

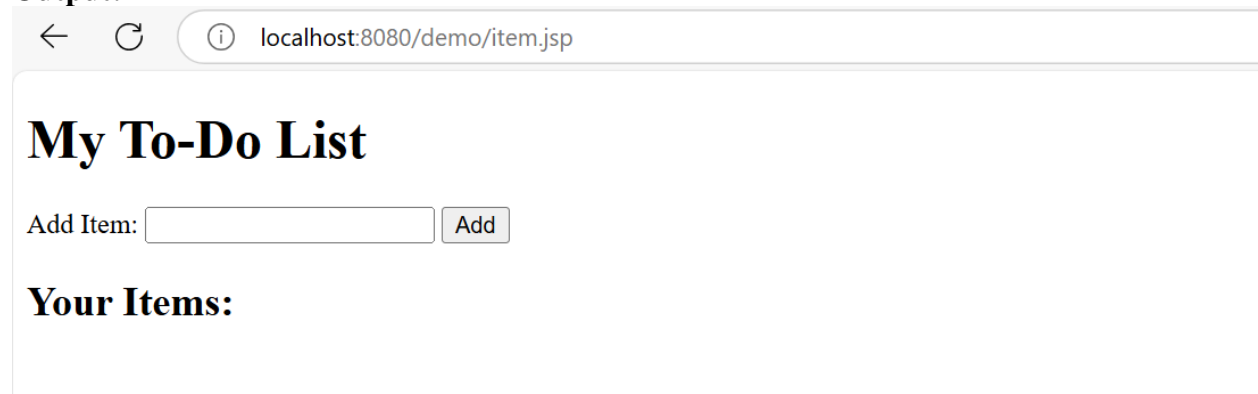
        // Check if a new item was submitted
        String newItem = request.getParameter("todoItem");
        if (newItem != null && !newItem.trim().isEmpty()) {
            todoList.add(newItem); // Add the new item to the list
            session.setAttribute("todoList", todoList); // Update the session
        }
    %>

    <h2>Your Items:</h2>
    <ul>
        <%
            // Display the to-do list
            for (String item : todoList) {
                out.println("<li>" + item + "</li>");
            }
        %>
    </ul>

</body>
</html>

```

Output:-



← ↻ ⓘ localhost:8080/demo/item.jsp

My To-Do List

Add Item:

Your Items:

My To-Do List

Add Item:

Items in Your To-Do List:

shirt

Your To-Do List

Add a new item:

Items in Your To-Do List:

shirt
pant