



SCTR's PUNE INSTITUTE OF COMPUTER TECHNOLOGY PUNE - 411043

Department of Electronics & Telecommunication Engineering (E&TCE)

ASSESSMENT YEAR: 2024-2025

CLASS: TE

BATCH:- N7

SUBJECT: Advanced JAVA Programming

Assignment No: 9

Roll No: 32402

Date: 02/04/2025

Programmer Name: Sahil Amrutkar

Batch: N7

Problem Statement:

Design a simple JSP page to display a simple message

Code:

index.jsp:

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title>Simple To-Do List</title>
    <link rel="stylesheet" href="styles.css">
</head>
<body>
    <div class="container">
        <h1>To-Do List</h1>

        <form action="ToDoServlet" method="post">
            <input type="text" name="task" required placeholder="Enter a new task">
            <button type="submit">Add Task</button>
        </form>

        <h2>Tasks:</h2>
```



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<%

```
java.util.List<String> tasks = (java.util.List<String>) session.getAttribute("tasks");
```

```
if (tasks != null) {
```

```
    for (String task : tasks) {
```

%>


```
<span><%= task %></span>
```

```
<a href="ToDoServlet?task=<%= task %>&action=delete">Delete</a>
```


<%

```
}
```

```
}
```

%>

</div>

</body>

</html>

styles.css:

```
@charset "UTF-8";
```

```
body {
```

```
    margin: 0;
```

```
    padding: 0;
```

```
    font-family: Arial, sans-serif;
```

```
    background: #f0f2f5;
```

```
    color: #333;
```

```
}
```



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```
.container {  
    max-width: 600px;  
    margin: 50px auto;  
    background: #fff;  
    padding: 20px;  
    border-radius: 8px;  
    box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);  
}  
  
h1 {  
    text-align: center;  
    color: #34495e;  
}  
  
form {  
    display: flex;  
    justify-content: center;  
    margin-bottom: 20px;  
}  
  
form input[type="text"] {  
    width: 60%;  
    padding: 10px;  
    border: 2px solid #bdc3c7;  
    border-radius: 4px 0 0 4px;  
    font-size: 16px;  
    outline: none;  
}  
  
form button {  
    background: #2980b9;  
    color: #fff;
```



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```
border: none;

padding: 10px 20px;

font-size: 16px;

cursor: pointer;

border-radius: 0 4px 4px 0;

}

form button:hover {

    background: #3498db;

}

h2 {

    color: #2c3e50;

    text-align: center;

}

ul {

    list-style-type: none;

    padding: 0;

}

ul li {

    background: #ecf0f1;

    margin: 5px 0;

    padding: 10px;

    border-radius: 4px;

    display: flex;

    justify-content: space-between;

    align-items: center;

}

ul li a {

    text-decoration: none;
```



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```
color: #e74c3c;

font-weight: bold;

transition: color 0.2s;

}

ul li a:hover {

color: #c0392b;

}
```

ToDoServlet.java:

```
package com.todo;
```

```
import java.io.IOException;

import java.util.ArrayList;

import java.util.List;

import jakarta.servlet.ServletException;

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

import jakarta.servlet.http.HttpSession;

public class ToDoServlet extends HttpServlet {

    private static final long serialVersionUID = 1L;

    protected void doPost(HttpServletRequest request, HttpServletResponse response)

        throws ServletException, IOException {

        String task = request.getParameter("task");
```



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```
HttpSession session = request.getSession();
```

```
List<String> tasks = (List<String>) session.getAttribute("tasks");
```

```
if (tasks == null) {
```

```
    tasks = new ArrayList<>();
```

```
    session.setAttribute("tasks", tasks);
```

```
}
```

```
if (task != null && !task.trim().isEmpty()) {
```

```
    tasks.add(task);
```

```
}
```

```
response.sendRedirect("index.jsp");
```

```
}
```

```
protected void doGet(HttpServletRequest request, HttpServletResponse response)
```

```
    throws ServletException, IOException {
```

```
    String taskToDelete = request.getParameter("task");
```

```
    String action = request.getParameter("action");
```

```
    HttpSession session = request.getSession();
```

```
    List<String> tasks = (List<String>) session.getAttribute("tasks");
```

```
    if ("delete".equals(action) && taskToDelete != null && tasks != null) {
```

```
        tasks.remove(taskToDelete);
```

```
}
```

```
response.sendRedirect("index.jsp");
```



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```
}  
  
}
```

web.xml:

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<web-app id="WebApp_ID" version="2.4" xmlns="http://java.sun.com/xml/ns/j2ee"  
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://java.sun.com/xml/ns/j2ee  
http://java.sun.com/xml/ns/j2ee/web-app_2_4.xsd">
```

```
    <display-name>JSP_ToDoList</display-name>
```

```
    <servlet>
```

```
        <servlet-name>ToDoServlet</servlet-name>
```

```
        <servlet-class>com.todo.ToDoServlet</servlet-class>
```

```
    </servlet>
```

```
    <servlet-mapping>
```

```
        <servlet-name>ToDoServlet</servlet-name>
```

```
        <url-pattern>/ToDoServlet</url-pattern>
```

```
    </servlet-mapping>
```

```
    <welcome-file-list>
```

```
        <welcome-file>index.html</welcome-file>
```

```
        <welcome-file>index.htm</welcome-file>
```

```
        <welcome-file>index.jsp</welcome-file>
```

```
        <welcome-file>default.html</welcome-file>
```

```
        <welcome-file>default.htm</welcome-file>
```

```
        <welcome-file>default.jsp</welcome-file>
```

```
    </welcome-file-list>
```

```
</web-app>
```



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Output:

To-Do List

Add Task

Tasks:

To-Do List

Add Task

Tasks:

Complete AJP assignments

Delete

Learn about JSP

Delete

Test JSP application

Delete