



Case Study: Online Feedback Collection System



Scenario:

A college wants to collect feedback from students on various facilities (library, cafeteria, labs, etc.). The system is **purely JSP-based**, using **JSTL and Directives**, and stores all data in **memory only (no database)** for demo or local testing.



Objectives:

- Use **JSP Directives** to include common layouts.
- Use **JSTL Core Tags** to display questions, iterate over submitted feedback, and control visibility.
- Use **EL (Expression Language)** to read submitted values and display them dynamically.



Pages Involved:

1. index.jsp

- A welcome page with a link to start the feedback form.

Code:

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

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>Feedback System</title>

</head>

<body>

<% @ include file="header.jsp" %>

<h2>Welcome to the Feedback System</h2>

<p>Please click the button below to give your feedback.</p>

<form action="FeedbackForm.jsp" method="get">

<input type="submit" value="Give Feedback">
```

```
</form>

<% @ include file="footer.jsp" %>

</body>

</html>
```

2. feedbackForm.jsp

- Displays a form with multiple facilities (library, lab, etc.) using checkboxes and text inputs.
- The form posts to `feedbackSummary.jsp`.

Code:

```
<% @ page contentType="text/html; charset=UTF-8" %>

<% @ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<% @ include file="header.jsp" %>

<html>

<head><title>Summary</title></head>

<body>

<h3>Hello, ${param.username}!</h3>

<c:if test="${empty paramValues.facility}">

    <p>No feedback submitted.</p>

</c:if>

<c:if test="${not empty paramValues.facility}">

    <h4>You gave feedback on:</h4>

    <ul>

        <c:forEach var="item" items="${paramValues.facility}">

            <li>${item}</li>

        </c:forEach>

    </ul>
```

```

    <p><b>Comments:</b> ${param.comments}</p>
</c:if>

<a href="thankyou.jsp?user=${param.username}">Finish</a>

</body>

</html>

<% @ include file="footer.jsp" %>

```

3. feedbackSummary.jsp

- Uses JSTL `<c:forEach>` to loop through responses.
- Shows feedback based on form input.
- If nothing is selected, uses `<c:if>` to display a "No feedback submitted" message.

Code:

```

<% @ page contentType="text/html; charset=UTF-8" %>
<% @ include file="header.jsp" %>
<% @ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>

<!DOCTYPE html>

<html>

<head>

    <title>Feedback Summary</title>

</head>

<body>

    <%-- Store request parameters using JSTL --%>

    <c:set var="username" value="${param.username}" />

    <c:set var="facilities" value="${paramValues.facility}" />

```

```

<c:set var="comments" value="\${param.comments}" />
<h3>Hello, \${username}!</h3>
<c:if test="\${empty facilities}">
    <p><strong>No feedback submitted.</strong></p>
</c:if>
<c:if test="\${not empty facilities}">
    <h4>You gave feedback on the following facilities:</h4>
    <ul>
        <c:forEach var="facility" items="\${facilities}">
            <li>\${facility}</li>
        </c:forEach>
    </ul>
    <p><strong>Your Comments:</strong> \${comments}</p>
</c:if>

<br>
<a href="thankyou.jsp?user=\${username}">Finish</a>

</body>
</html>
<% @ include file="footer.jsp" %>

```

4. **thankyou.jsp**

- Simple thank-you message using EL to greet the user.

Code:

```

<% @ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8"%>
<% @ include file="header.jsp" %>
<!DOCTYPE html>

```

```
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<h3>Thank You, ${param.username}!</h3>
<p>Your feedback has been recorded.</p>

</body>
</html>
<%@ include file="footer.jsp" %>
```

5. header.jsp / footer.jsp

- Included using `<%@ include %>` directive on every page for layout consistency.

header.jsp Code:

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Feedback System</title>
</head>
```

```
<body>
<h2>Welcome to College Feedback Portal</h2>
```

<hr/>

</body>

</html>

Footer.jsp code:

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

```
    pageEncoding="UTF-8"%>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<title>Insert title here</title>
```

```
</head>
```

```
<body>
```

```
<hr>
```

```
<p>&copy; 2025 College Feedback System</p>
```

```
</body>
```

```
</html>
```