



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.

index.jsp

```
<% @ 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>Welcome page</title>
</head>
<body>
    <div class="card center">
        <h3>Welcome to the Online Feedback System</h3>
        <p>We value your feedback on our college facilities.
            Please click below to start sharing your opinions.</p>
        <br>
        <a href="feedbackForm.jsp" class="btn">Start Feedback</a>
    </div>
</body>
</html>
<% @include file="footer.jsp" %>
```

2. **feedbackForm.jsp**

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

feedbackForm.jsp

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

<% @ include file="header.jsp" %>
<% @ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
    <h3>Feedback Form</h3>
    <form action="feedbackSummary.jsp" method="post">
        <label>Your Name:</label>
        <input type="text" name="username" required>

        <label>Select Facilities you want to give feedback on:</label><br>
        <input type="checkbox" name="facilities" value="Library"> Library<br>
        <input type="checkbox" name="facilities" value="Cafeteria"> Cafeteria<br>
        <input type="checkbox" name="facilities" value="Labs"> Labs<br>
        <input type="checkbox" name="facilities" value="Sports Complex"> Sports
        Complex<br><br>

        <label>Additional Comments:</label>
        <textarea name="comments" rows="4"></textarea>

        <div class="center">
            <input type="submit" value="Submit Feedback" class="btn">
        </div>
    </form>
</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.

feedbackSummary.jsp

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

<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
    <h3>Feedback Summary</h3>
<div class="card">
    <c:if test="${empty paramValues.facilities}">
        <p style="color:red;">No feedback submitted for facilities.</p>
    </c:if>

    <c:if test="${not empty paramValues.facilities}">
        <p><strong>Name:</strong> ${param.username}</p>
        <p><strong>Facilities Feedback Given For:</strong></p>
        <ul>
            <c:forEach var="facility" items="${paramValues.facilities}">
                <li>${facility}</li>
            </c:forEach>
        </ul>
        <p><strong>Comments:</strong> ${param.comments}</p>
    </c:if>
</div>

<br>
<div class="center">
    <a href="thankyou.jsp?username=${param.username}" class="btn">Proceed to Thank
    You</a>
</div>
</body>
</html>

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

4. **thankyou.jsp**

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

thankyou.jsp

```
<% @ 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>
    <div class="card center">
        <h3>Thank You, ${param.username}!</h3>
        <p>Your feedback has been recorded successfully.</p>
        <a href="index.jsp" class="btn">Go Back to Home</a>
    </div>
</body>
</html>
<% @ include file="footer.jsp" %>
```

5. header.jsp & footer.jsp

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

header.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<html>
<head>
    <title>Online Feedback System</title>
    <style>
        body {
            margin: 0;
            padding: 0;
            background-color: lightgray;
        }
        header {
            background: gray;
            color: white;
            padding: 20px;
            text-align: center;
            font-size: 22px;
            font-weight: bold;
            margin-bottom: 20px;
        }
        footer {
            background: gray;
            color: white;
            padding: 10px;
            text-align: center;
            position: fixed;
            bottom: 0;
            width: 100%;
            font-size: 14px;
        }
        h3 {
            color: gray;
            text-align: center;
        }
        form {
            max-width: 500px;
            margin: auto;
            background: white;
            padding: 20px;
            border-radius: 12px;
        }
        input[type="text"], textarea {
            width: 100%;
            padding: 10px;
            margin-top: 6px;
            margin-bottom: 15px;
```

```
        border: 1px solid #ddd;
        border-radius: 8px;
        font-size: 14px;
    }
    input[type="checkbox"] {
        margin-right: 6px;
    }
    .btn {
        display: inline-block;
        background: gray;
        color: white;
        padding: 10px 20px;
        text-decoration: none;
        border-radius: 8px;
        font-size: 16px;
        transition: background 0.3s;
        border: none;
        cursor: pointer;
    }
    .btn:hover {
        background: lightgray;
    }
    .card {
        background: white;
        padding: 20px;
        border-radius: 12px;
        max-width: 600px;
        margin: auto;
    }
    ul {
        list-style: square;
        color: gray;
    }
    .center {
        text-align: center;
    }
</style>
</head>
<body>
<header>
    College Feedback Portal
</header>
</body>
</html>
```

footer.jsp

```
<% @ 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>
<footer>
    &copy; 2025 College Feedback Portal. | G. Pulla Reddy Engineering College Pvt. Lmt.
</footer>
</body>
</html>
```