

Case Study: Online Feedback Collection System

🎯 Objective:

An educational institution needs an online system to collect student feedback on courses or instructors. Students will fill out a form, and the data will be processed by a backend Java servlet hosted on a Tomcat 10+ server using Jakarta EE 9+ APIs.

index.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>
<body>
<h2>Course Feedback Form</h2>
<form method="post" action="submitFeedback">
<label>Student Name:</label>
<input type="text" name="studentName" required /><br/><br/>
<label>Email Address:</label>
<input type="email" name="email" required /><br/><br/>
<label>Course Attended:</label>
<input type="text" name="course" required /><br/><br/>
<label>Feedback:</label><br/>
<textarea name="feedback" required></textarea><br/><br/>
<input type="submit" value="Submit Feedback" />
</form>
</body>
</html>
```

thankyou.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>
<body>
<h2>Thank You for Your Feedback!</h2>
```

```
<p><strong>Name:</strong> ${studentName}</p>
<p><strong>Email:</strong> ${email}</p>
<p><strong>Course:</strong> ${course}</p>
<p><strong>Feedback:</strong> ${feedback}</p>
</body>
</html>
```

FeedbackServlet.java:

```
package com.example.servlet;
import java.io.IOException;
import jakarta.servlet.*;
import jakarta.servlet.http.*;
public class FeedbackServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;
    @Override
    protected void doPost(HttpServletRequest request,
        HttpServletResponse response)
        throws ServletException, IOException {
        String studentName = request.getParameter("studentName");
        String email = request.getParameter("email");
        String course = request.getParameter("course");
        String feedback = request.getParameter("feedback");
        if (studentName == null || email == null || course == null
            || feedback == null) {
            response.sendRedirect("index.jsp");
            return;
        }
        request.setAttribute("studentName", studentName);
        request.setAttribute("email", email);
        request.setAttribute("course", course);
        request.setAttribute("feedback", feedback);
        RequestDispatcher dispatcher =
            request.getRequestDispatcher("thankyou.jsp");
        dispatcher.forward(request, response);
    }
}
```

web.xml:

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns="https://jakarta.ee/xml/ns/jakartaee"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="https://jakarta.ee/xml/ns/jakartaee
        https://jakarta.ee/xml/ns/jakartaee/web-app_5_0.xsd"
    version="5.0">
    <servlet>
        <servlet-name>FeedbackServlet</servlet-name>
```

```
<servlet-class>com.example.servlet.FeedbackServlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>FeedbackServlet</servlet-name>
<url-pattern>/submitFeedback</url-pattern>
</servlet-mapping>
<welcome-file-list>
<welcome-file>index.jsp</welcome-file>
</welcome-file-list>
</web-app>
```