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Day6_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.

Scenario Description:

The institute offers various technical and non-technical courses. They want to capture feedback from students after course completion. The feedback form includes fields like:

- Student Name • Email Address
- Course Attended • Feedback or Suggestions

The institution also wants to:

- Display a confirmation page showing submitted data.
- Optionally store this feedback in a database for future reference.
- Track if a student has already submitted feedback using session/cookie-based mechanismsutilization.java:

Source Code

➤ Feedback.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" rows="5" cols="30"
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("feedback.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>feedback.jsp</welcome-file>
    </welcome-file-list>

</web-app>

```