

# Case Study: Online Feedback Collection System

## 1. Frontend: feedback.html or feedback.jsp

```
<!DOCTYPE html>
<html>
<head>
  <title>Course Feedback Form</title>
</head>
<body>
  <h2>Student Feedback Form</h2>
  <form method="post" action="FeedbackServlet">
    Name: <input type="text" name="name" required><br><br>
    Email: <input type="email" name="email" required><br><br>
    Course Attended: <input type="text" name="course" required><br><br>
    Feedback/Suggestions:<br>
    <textarea name="feedback" rows="5" cols="40" required></textarea><br><br>
    <input type="submit" value="Submit Feedback">
  </form>
</body>
</html>
```

## 2. Backend Servlet: FeedbackServlet.java

```
package com.feedback;
```

```
import jakarta.servlet.*;
```

```
import jakarta.servlet.annotation.WebServlet;
```

```
import jakarta.servlet.http.*;
```

```
import java.io.*;
```

```
@WebServlet("/FeedbackServlet")
```

```
public class FeedbackServlet extends HttpServlet {
```

```
    protected void doPost(HttpServletRequest request, HttpServletResponse response)  
    throws IOException {
```

```
        response.setContentType("text/html");
```

```
        PrintWriter out = response.getWriter();
```

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

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

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

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

```
        // Check for existing feedback via cookie
```

```
        boolean alreadySubmitted = false;
```

```
        Cookie[] cookies = request.getCookies();
```

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

```
            for (Cookie c : cookies) {
```

```
                if (c.getName().equals("feedbackSubmitted") && c.getValue().equals(email)) {
```

```
                    alreadySubmitted = true;
```

```
                    break;
```

```
                }
```

```

    }
}

if (alreadySubmitted) {
    out.println("<h2>You have already submitted feedback.</h2>");
} else {
    // Save data to database or file (optional – placeholder here)
    // e.g., writeToDatabase(name, email, course, feedback);

    // Set cookie to prevent resubmission
    Cookie feedbackCookie = new Cookie("feedbackSubmitted", email);
    feedbackCookie.setMaxAge(60 * 60 * 24); // 1 day
    response.addCookie(feedbackCookie);

    // Confirmation response
    out.println("<h2>Thank you for your feedback!</h2>");
    out.println("<p><strong>Name:</strong> " + name + "</p>");
    out.println("<p><strong>Email:</strong> " + email + "</p>");
    out.println("<p><strong>Course:</strong> " + course + "</p>");
    out.println("<p><strong>Feedback:</strong> " + feedback + "</p>");
}

out.close();
}
}

```

### 3. web.xml Configuration (if not using @WebServlet)

```
<web-app xmlns="https://jakarta.ee/xml/ns/jakartaee" version="5.0">
  <servlet>
    <servlet-name>FeedbackServlet</servlet-name>
    <servlet-class>com.feedback.FeedbackServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>FeedbackServlet</servlet-name>
    <url-pattern>/FeedbackServlet</url-pattern>
  </servlet-mapping>
  <welcome-file-list>
    <welcome-file>feedback.html</welcome-file>
  </welcome-file-list>
</web-app>
```