

# EXP 4: SERVLET PROGRAM 2

**Create a web form that accepts a user's name and age. Write a Servlet to process the form data and display it back on the browser.**

## **AIM:**

To create a web-based application using **HTML** and **Java Servlets** that accepts a user's name and age through a form and displays the submitted data back to the user in the browser.

## **ALGORITHM:**

### **Step 1: Create an HTML form (index.html)**

- Use <form> to accept user input for **name** and **age**.
- Set the form method to POST and action to the servlet URL (e.g., /process).

### **Step 2: Create the Java Servlet (UserFormServlet.java)**

- Import necessary packages from jakarta.servlet.\* and jakarta.servlet.http.\*.
- Extend the HttpServlet class.
- Override the doPost() method to:
  - Retrieve name and age using request.getParameter().
  - Generate an HTML response displaying the data using response.getWriter().

### **Step 3: Configure the servlet in web.xml**

- Register the servlet class with a <servlet> tag.
- Map the servlet to the form action URL using <servlet-mapping>.

### **Step 4: Compile the servlet**

- Use the servlet API JAR from Tomcat's lib folder in the classpath.
- Compile using javac -cp.

### **Step 5: Deploy the application**

- Place index.html in the root of the web app (webapps/EXP4/).
- Place web.xml in WEB-INF.
- Place compiled .class files in WEB-INF/classes.

## Step 6: Start the Tomcat Server

- Run startup.bat from Tomcat/bin/.
- Access the application at <http://localhost:8080/EXP4/>.

## SOURCE CODE:

### UserFormServlet.java

```
WEB-INF > classes > J UserFormServlet.java > ...
1  // File: EXP4/WEB-INF/classes/UserFormServlet.java
2  import jakarta.servlet.ServletException;
3  import jakarta.servlet.http.HttpServlet;
4  import jakarta.servlet.http.HttpServletRequest;
5  import jakarta.servlet.http.HttpServletResponse;
6
7  import java.io.IOException;
8  import java.io.PrintWriter;
9
10 public class UserFormServlet extends HttpServlet {
11     protected void doPost(HttpServletRequest request, HttpServletResponse response)
12         throws ServletException, IOException {
13
14         String username = request.getParameter("username");
15         String age = request.getParameter("age");
16
17         response.setContentType("text/html");
18         PrintWriter out = response.getWriter();
19         out.println(x:"<html><body>");
20         out.println(x:"<h2>User Details Received</h2>");
21         out.println("<p>Name: " + username + "</p>");
22         out.println("<p>Age: " + age + "</p>");
23         out.println(x:"</body></html>");
24     }
25 }
```

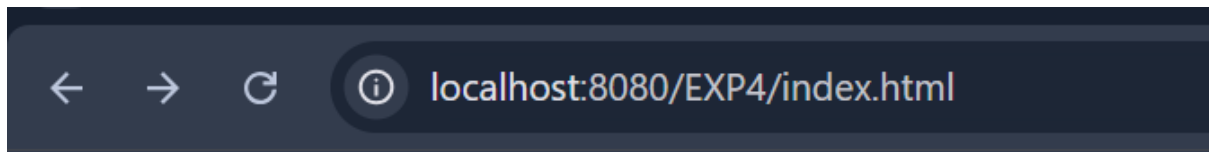
## Web.xml

```
WEB-INF > web.xml
1  <!-- File: EXP4/WEB-INF/web.xml -->
2  <web-app xmlns="https://jakarta.ee/xml/ns/jakartaee"
3  |       |       | xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4  |       |       | xsi:schemaLocation="https://jakarta.ee/xml/ns/jakartaee
5  |       |       | https://jakarta.ee/xml/ns/jakartaee/web-app_5_0.xsd"
6  |       |       | version="5.0">
7  |
8  |     <servlet>
9  |     |   <servlet-name>UserFormServlet</servlet-name>
10 |     |   <servlet-class>UserFormServlet</servlet-class>
11 |     </servlet>
12 |
13 |     <servlet-mapping>
14 |     |   <servlet-name>UserFormServlet</servlet-name>
15 |     |   <url-pattern>/process</url-pattern>
16 |     </servlet-mapping>
17 |
18 |     <welcome-file-list>
19 |     |   <welcome-file>index.html</welcome-file>
20 |     </welcome-file-list>
21 </web-app>
```

## Index.html

```
<> index.html > ...
1  <!-- File: EXP4/index.html -->
2  <!DOCTYPE html>
3  <html>
4  <head>
5  |   <title>User Form</title>
6  </head>
7  <body>
8  |   <h2>Enter Your Details</h2>
9  |   <form action="/process" method="post">
10 |     Name: <input type="text" name="username"><br><br>
11 |     Age: <input type="text" name="age"><br><br>
12 |     <input type="submit" value="Submit">
13 |   </form>
14 </body>
15 </html>
16
```

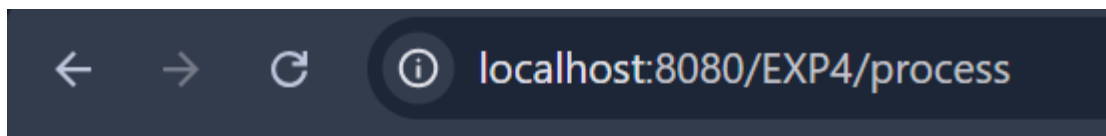
## OUTPUT:



## Enter Your Details

Name:

Age:



**Name: nandy**

**Age: 19**

## RESULT:

Thus, the program was executed successfully.