

## **EX NO 4 : Create a web form that accepts a users name and age. Write a Servlet to process the form data and display it back on the browser.**

### **AIM:**

To create a web-based Java Servlet application that accepts a user's name and age through an HTML form and displays the submitted data back on the browser using Java Servlet technology.

### **Algorithm:**

1. Start:
  - The user accesses the web page containing the HTML form.
2. Display Form:
  - The form includes two fields: one for the user's name (username) and another for the user's age (age).
  - The form submits data to the servlet via POST request.
3. Servlet Processing
  - The server receives the data submitted by the form.
  - The servlet processes the form data, retrieves the values of the username and age from the request.
4. Display Data:
  - The servlet generates an HTML response containing the data (name and age) and sends it back to the user's browser.
5. End.

### **CODE:**

```
<!DOCTYPE html>
```

```
<html> <head>
```

```
<title>User Form</title>
```

```
<style>
```

```
body {
```

```
    font-family: Arial, sans-serif;
```

```
    background-color: #f4f4f4;
```

```
    display: flex;
```

```
    justify-content: center;
```

```
    align-items: center;

    height: 100vh;

    margin: 0;
}

.container {

    background: #fff;

    padding: 20px;

    border-radius: 10px;

    box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);

    text-align: center;

    width: 300px;
}

h2 {

    color: #333;
}

input[type="text"], input[type="number"] {

    width: 90%;

    padding: 10px;

    margin: 10px 0;

    border: 1px solid #ccc;

    border-radius: 5px;
}

input[type="submit"] {

    background: #007BFF;

    color: white;
```

```
padding: 10px 15px;

border: none;

border-radius: 5px;

cursor: pointer;

font-size: 16px;

width: 100%;

}

input[type="submit"]:hover {

    background: #0056b3;

}

</style>

</head>

<body>

    <div class="container">

        <h2>Enter Your Details</h2>

        <form action="UserServlet" method="post">

            <input type="text" name="username" placeholder="Enter your name" required><br>

            <input type="number" name="age" placeholder="Enter your age" required><br>

            <input type="submit" value="Submit">

        </form>

    </div>

</body>

</html>
```

**Java Servlet:**

```
import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;


@WebServlet("/Exp4") // Make sure your form action matches this URL

public class Exp4 extends HttpServlet {

    protected void doPost(HttpServletRequest request, HttpServletResponse response)

        throws ServletException, IOException {

        response.setContentType("text/html");

        PrintWriter out = response.getWriter();

        // Retrieving form data

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

        String age = request.getParameter("age");

        // Output HTML response

        out.println("<html><body>");

        out.println("<h2>Welcome, " + name + "!</h2>");

        out.println("<p>Your age is: " + age + "</p>");

        out.println("</body></html>");

    }

}
```

Configure **web.xml** :

```
<web-app xmlns="http://java.sun.com/xml/ns/javaee" version="3.0">  
  <servlet>  
    <servlet-name>UserServlet</servlet-name>  
    <servlet-class>UserServlet</servlet-class>  
  </servlet>  
  <servlet-mapping>  
    <servlet-name>UserServlet</servlet-name>  
    <url-pattern>/UserServlet</url-pattern>  
  </servlet-mapping>  
</web-app>
```

OUTPUT:

---

### Enter Your Details

Name:

Age:

**Welcome,DELI GANESH!!**

The age is 18

**RESULT :**

Thus the give program is executed successfully