

Ex No: 4

Date:

WEB BASED SERVLET APPLICATION

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")
public class Exp4 extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();

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

        out.println("<html><body>");
        out.println("<h2>Welcome, " + name + "!</h2>");
        out.println("<p>Your age is: " + age + "</p>");
        out.println("</body></html>");
    }
}
Web.xml
<web-app xmlns="http://java.sun.com/xml/ns/javaee" version="3.0">
<servlet>
    <servlet-name>Exp4</servlet-name>
    <servlet-class>Exp4</servlet-class>
</servlet>

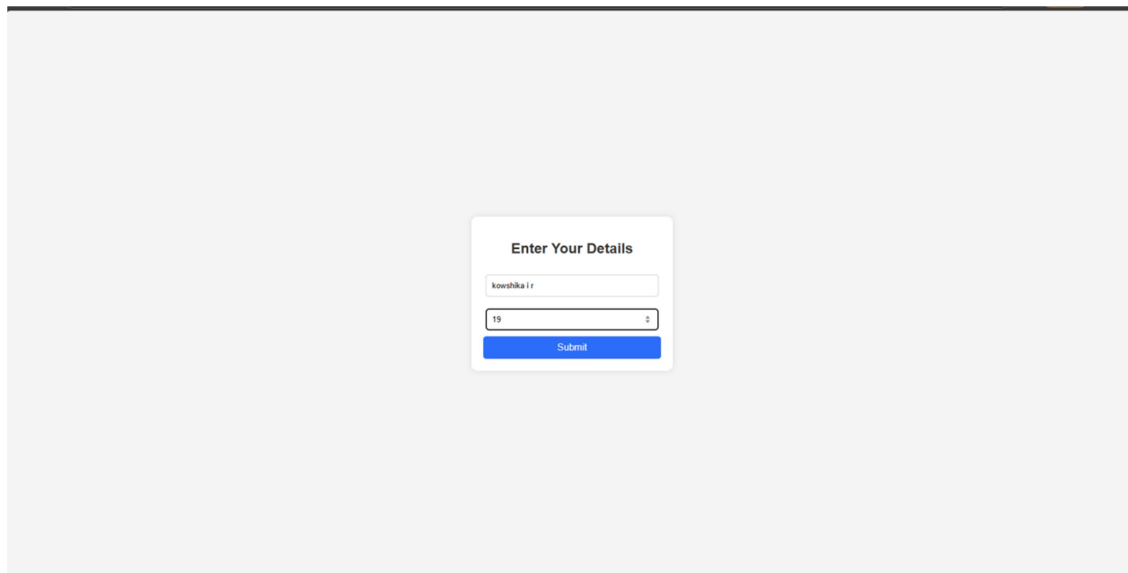
<servlet-mapping>

```

```
        <servlet-name>Exp4</servlet-name>
        <url-pattern>/Exp4</url-pattern>
    </servlet-mapping>
</web-app>
<web-app xmlns="http://java.sun.com/xml/ns/javaee" version="3.0">
    <servlet>
        <servlet-name>Exp4</servlet-name>
        <servlet-class>Exp4</servlet-class>
    </servlet>

    <servlet-mapping>
        <servlet-name>Exp4</servlet-name>
        <url-pattern>/Exp4</url-pattern>
    </servlet-mapping>
</web-app>
```

OUTPUT:



The screenshot displays a web application interface with a light gray background. In the center, there is a white rectangular form box with a thin gray border. The form has a title "Enter Your Details" at the top. Below the title, there are two input fields. The first input field contains the text "Korshika I r". The second input field contains the number "19". Below these two input fields is a blue button with the text "Submit" in white.

Welcome, kowshika i r!

Your age is: 19

RESULT :

The web-based Java Servlet application designed to accept user input (name and age) via an HTML form and subsequently display the submitted data on the browser has been successfully developed and deployed using Java Servlet technology.