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:

```html
<!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;
```

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```css
        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 :

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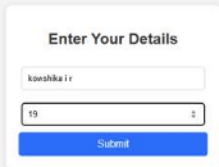
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```xml
<web-app xmlns="http://java.sun.com/xml/ns/javaee" version="3.0">
    <servlet>
        <servlet-name>Exp4</servlet-name>
        <servlet-class>Exp4</servlet-class>
    </servlet>

    <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:

Enter Your Details

kowshika i r

19

Submit

Welcome, kowshika i r!

Your age is: 19

RESULT :

Thus the give program is executed successfully.

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