Subject Code : AI23431   WEB TECHNOLOGY AND MOBILE APPLICATION

231501064 AIML FA   Artificial Intelligence Data Science and Artificial Intelligence Machine Learning

LIST OF EXPERIMENT : 04

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

AIM : To Create a web form that accepts a user name and age a Servlet to process the form data and display it back on the browser.

SOURCE CODE :

1. **HTML Form (userForm.html) :**

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Personal Info Form</title>
 <style>
   body {
     font-family: Arial, sans-serif;
     background-color: #f2f2f2;
     margin: 0;
```

```css
        padding: 0;
}
.container {
    width: 400px;
    margin: 50px auto;
    padding: 20px;
    background-color: #fff;
    border-radius: 8px;
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
}
h2 {
    text-align: center;
    color: #4CAF50;
}
label {
    font-size: 14px;
    color: #333;
}
input[type="text"], input[type="number"] {
    width: 100%;
    padding: 10px;
    margin-top: 5px;
    margin-bottom: 15px;
    border: 1px solid #ccc;
    border-radius: 4px;
    font-size: 16px;
}
input[type="submit"] {
    width: 100%;
    padding: 12px;
    background-color: #4CAF50;
    color: #fff;
    border: none;
```

```
      border-radius: 4px;
      font-size: 16px;
      cursor: pointer;
    }
    input[type="submit"]:hover {
      background-color: #45a049;
    }
  </style>
</head>
<body>
  <div class="container">
    <h2>Enter Your Information</h2>
    <form action="processInfo" method="post">
      <label for="name">Name:</label>
      <input type="text" id="name" name="name" required>


      <label for="age">Age:</label>
      <input type="number" id="age" name="age" required min="1">


      <input type="submit" value="Submit">
    </form>
  </div>
</body>
</html>
```

2.
Servlet (UserInfoServlet.java) :

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
```

```java
public class UserInfoServlet extends HttpServlet {

 // Handle POST request from the form
 @Override
 protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

    // Set the content type to HTML
    response.setContentType("text/html");

    // Get the PrintWriter object to send the response back to the browser
    PrintWriter out = response.getWriter();

    // Get the parameters (name and age) from the form submission
    String name = request.getParameter("name");
    String age = request.getParameter("age");

    // Write the response HTML
    out.println("<html>");
    out.println("<head><title>User Information</title></head>");
    out.println("<body style='font-family: Arial, sans-serif; background-color: #f4f4f9;'>");
    out.println("<div style='width: 50%; margin: 0 auto; padding: 20px; background-color: white; border-radius: 8px; box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);'>");

    out.println("<h2>Hello, " + name + "!</h2>");
    out.println("<p>Your age is: <strong>" + age + "</strong> years.</p>");

    out.println("<a href='userForm.html' style='text-decoration: none; color: #4CAF50;'>Back to the form</a>");
    out.println("</div>");
    out.println("</body>");
    out.println("</html>");

    // Close the PrintWriter to finish the response
```

```
    out.close();
  }
}
```

3
Servlet Configuration (web.xml) :

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns="http://java.sun.com/xml/ns/javaee"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
              http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd"
    version="3.0">


  <!-- Servlet Configuration -->
  <servlet>
    <servlet-name>UserInfoServlet</servlet-name>
    <servlet-class>UserInfoServlet</servlet-class>
  </servlet>


  <!-- Servlet Mapping -->
  <servlet-mapping>
    <servlet-name>UserInfoServlet</servlet-name>
    <url-pattern>/processInfo</url-pattern>
  </servlet-mapping>


</web-app>
```

RESULT : Thus the web form that accepts a users name and age and Servlet to process the form data and

display it back on the browser is verified succefull

OUTPUT :