

EXP: 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.
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AIM:

To create a web-based Java Servlet application that gathers a user's name and age via an HTML form and displays the submitted information on the browser using Java Servlet technology.

Algorithm:

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

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>User Form</title>
  <style>
    body {
      font-family: 'Poppins', sans-serif;
      background: linear-gradient(135deg, #74ebd5, #acb6e5);
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      margin: 0;
    }
    .container {
      background: white;
      padding: 25px;
      border-radius: 10px;
      box-shadow: 0px 5px 15px rgba(0, 0, 0, 0.2);
    }
  </style>
</head>
<body>
  <div class="container">
    <h2>User Form</h2>
    <form>
      <input type="text" value="Name" />
      <input type="text" value="Age" />
      <input type="submit" value="Submit" />
    </form>
  </div>
</body>
</html>
```

```

        width: 350px;
        text-align: center;
    }
    h2 {
        color: #333;
        margin-bottom: 20px;
    }
    label {
        font-weight: 600;
        display: block;
        margin-top: 10px;
        color: #555;
    }
    input {
        width: 100%;
        padding: 10px;
        margin-top: 5px;
        border: 2px solid #ccc;
        border-radius: 5px;
        outline: none;
        transition: 0.3s;
    }
    input:focus {
        border-color: #74ebd5;
        box-shadow: 0px 0px 5px rgba(116, 235, 213, 0.5);
    }
    input[type="submit"] {
        background: #007bff;
        color: white;
        border: none;
        padding: 12px;
        font-size: 16px;
        font-weight: bold;
        cursor: pointer;
        margin-top: 20px;
        border-radius: 5px;
        transition: 0.3s;
    }
    input[type="submit"]:hover {
        background: #0056b3;
    }
</style>
</head>
<body>
<div class="container">
    <h2>Enter Your Details</h2>
    <form action="UserServlet" method="post">
        <label for="username">Name:</label>
        <input type="text" id="username" name="username" required>

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

```

```

        <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("/UserServlet")
public class UserServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        // Retrieve form data
        String username = request.getParameter("username");
        String age = request.getParameter("age");

        // Set response content type
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();

        // Display the submitted data
        out.println("<html><head><title>User Details</title></head><body>");
        out.println("<h2>Submitted User Details</h2>");
        out.println("<p><strong>Name:</strong> " + username + "</p>");
        out.println("<p><strong>Age:</strong> " + age + "</p>");
        out.println("</body></html>");
    }
}

```

Web.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>
        <servlet-name>UserServlet</servlet-name>
        <servlet-class>UserServlet</servlet-class>
    </servlet>

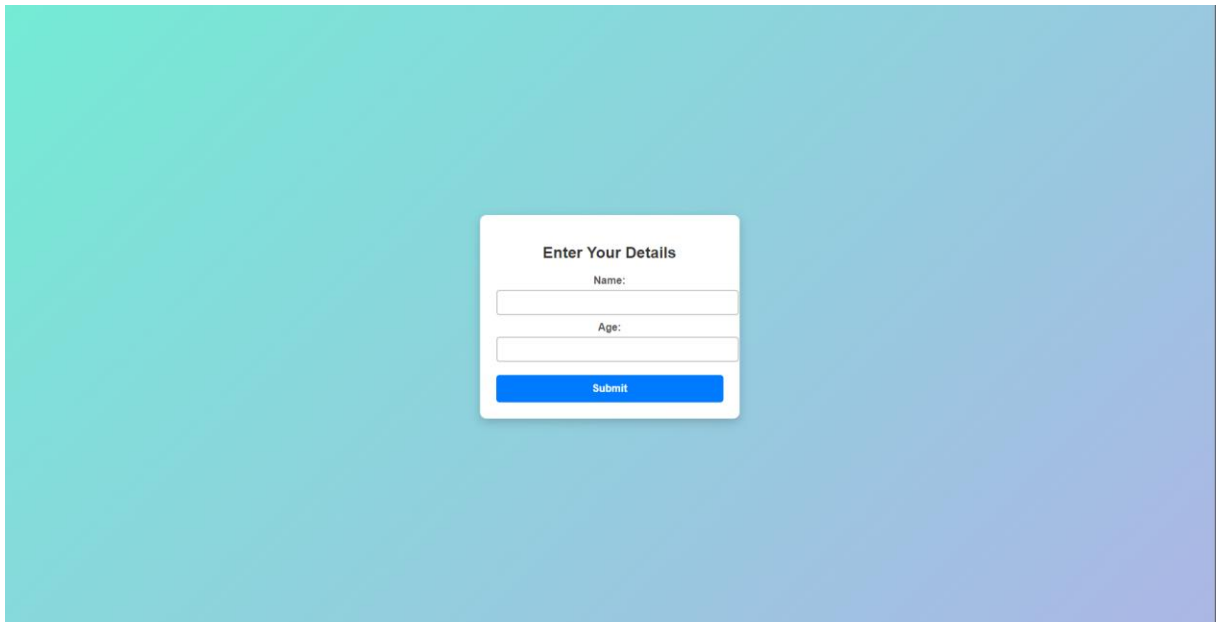
```

```
<servlet-mapping>
  <servlet-name>UserServlet</servlet-name>
  <url-pattern>/UserServlet</url-pattern>
</servlet-mapping>

<welcome-file-list>
  <welcome-file>index.html</welcome-file>
</welcome-file-list>

</web-app>
```

OUTPUT:

The image displays a web application interface. It features a light blue gradient background. In the center, there is a white rectangular form with rounded corners and a subtle drop shadow. The form is titled "Enter Your Details" in a bold, black font. Below the title, there are two input fields. The first is labeled "Name:" and the second is labeled "Age:". Both labels are in a small, black font. At the bottom of the form, there is a blue button with the word "Submit" in white text.

RESULT :

Thus the give program is executed successful.