

Subject Code : AI23431 WEB TECHNOLOGY AND MOBILE APPLICATION

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Artificial Intelligence & Data Science and Artificial Intelligence Machine Learning

LAB EXPERIMENT : 04

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

SOURCE CODE :

Create the HTML Form :

```
<!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>
```

```
</head>
<body>
<h2>User Information Form</h2>
```

```
<form action="processForm" method="POST">
<label for="name">Name:</label>
<input type="text" id="name" name="name" required><br><br>
<label for="age">Age:</label>
<input type="number" id="age" name="age" required><br><br>
<input type="submit" value="Submit">
</form>
</body>
</html>
```

Create the Servlet to Process the Form Data

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

```
public class ProcessFormServlet extends HttpServlet {
```

```
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
// Get the name and age from the form data
String name = request.getParameter("name");
String age = request.getParameter("age");
```

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

```
// Get the output stream to send the response
PrintWriter out = response.getWriter();
```

```
// Generate HTML content to display back the user's data
out.println("<html><body>");
out.println("<h2>User Information</h2>");
out.println("<p>Name: " + name + "</p>");
out.println("<p>Age: " + age + "</p>");
out.println("</body></html>");
}
```

Configure the Servlet in 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 Declaration -->
<servlet>
<servlet-name>ProcessFormServlet</servlet-name>
<servlet-class>ProcessFormServlet</servlet-class>
</servlet>
```

<!-- Servlet Mapping -->

```
<servlet-mapping>  
<servlet-name>ProcessFormServlet</servlet-name>  
<url-pattern>/processForm</url-pattern>  
</servlet-mapping>
```

</web-app>