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**EXPERIMENT 5**

**SERVLET**

**AIM:**

To Develop an JSP form to collect user registration details

**PROCEDURE:**

1. To create a form in HTML we need to use the following tags:
   * 1. <form>: to create a form to add fields in its body.
     2. <input>, <select>, <textarea>…: to create form fields like text boxes, dropdown list, text area, check boxes, radio buttons,… and submit button.
2. To make the form works with Java servlet, we need to specify the following attributes for the <form> tag:
   * 1. method=”post”: to send the form data as an HTTP POST request to the server. Generally, form submission should be done in HTTP POST method.
     2. action=”*URL of the servlet*”: specifies relative URL of the servlet which is responsible for handling data posted from this form.
3. On the server side, we need to create a Java servlet which is mapped to the URL: *loginServlet*, as specified in the form’s action attribute
4. the servlet’s URL is specified by the [@WebServlet](https://www.codejava.net/java-ee/servlet/webservlet-annotation-examples) annotation before the servlet class. When the user submits the login form above, the servlet’s doPost() method will be invoked by the servlet container. Typically we will do the following tasks inside doPost() method:
   * 1. Read values of the fields posted from the form via the request object (implementation of javax.servlet.http.HttpServletRequest interface).
     2. Do some processing, e.g. connecting to database to validate the username and password.
     3. Return response back to the user via the respone object (implementation of javax.servlet.http.HttpServletResponse interface).
5. To read values of form’s fields, the HttpServletRequest interface provides the following methods:
   * 1. String getParameter(String name): gets value of a field which is specified by the given name, as a String. The method returns null if there is no form field exists with the given name.
     2. String[] getParameterValues(String name): gets values of a group of fields which have same name, in an array of String objects. The method returns null if there is no field exists with the given name.

**SOURCE CODE :**

**Form.jsp:**

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Registration Form</title>

</head>

<body>

<style type="text/css">

</style>

<h1>Form</h1>

<form name="form" method="post" action="servlet1">

<label for="name">Enter name:</label><br>

<input type="text" name="name" id="name"><br>

<label for="password">Enter password:</label><br>

<input type="password" name="password" id="password"><br>

<br>

<input type="submit" value="REGISTER COURSE" id="register">

</form>

</body>

</html>

**Servlet1:**

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;

/\*\*

\* Servlet implementation class servlet1

\*/

@WebServlet("/servlet1")

public class servlet1 extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public servlet1() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

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

// TODO Auto-generated method stub

response.getWriter().append("Served at: ").append(request.getContextPath());

try {

response.setContentType("text/html");

PrintWriter pwriter = response.getWriter();

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

String password=request.getParameter("password");

pwriter.print("<p>Name: "+name+"</p>");

pwriter.print("<p>Password: "+password+"</p>");

pwriter.close();

}catch(Exception exp) {

System.out.println(exp);

}

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

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

// TODO Auto-generated method stub

doGet(request, response);

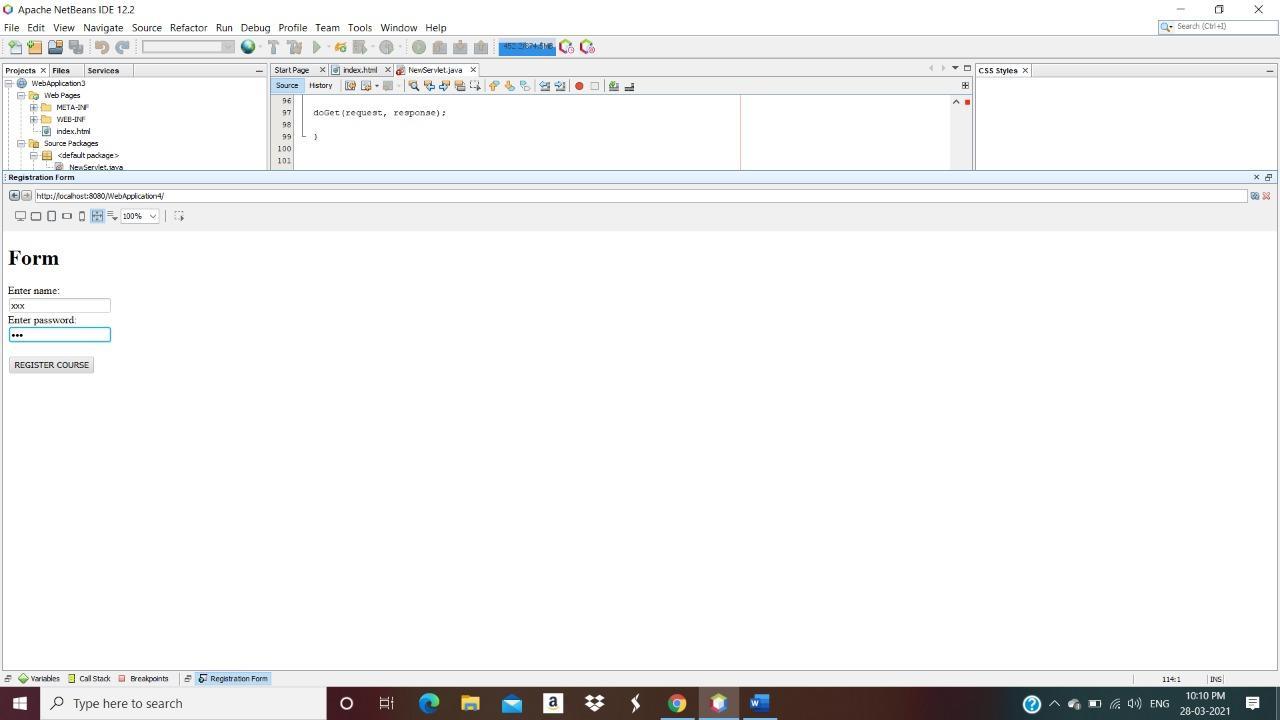
}

}

**OUTPUT:**

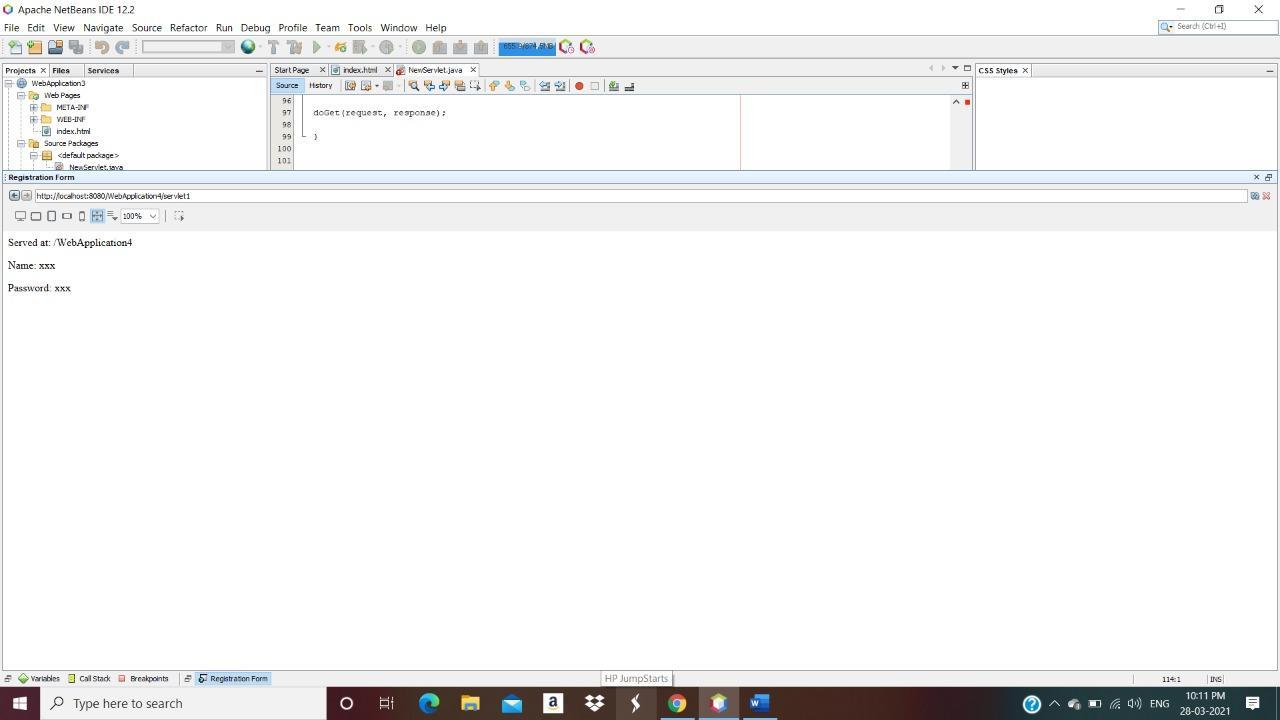
**Form.jsp:**





**Servlet.java**





**RESULT :**

The HTML form is developed successfully and processed using Servlet.