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| **ROLL NO:** | **18BCS045** |
| **COURSE:** | **INTERNET AND WEB PROGRAMMING** |
| **CODE:** | **U18CSI6201** |
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**EXPERIMENT-6**

**AIM:**

Develop a JSP form to collect user registration and login with cookies.

**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: *login*, as specified in the form’s action attribute.
4. When a user visits web application first time, the servlet container crates new HttpSession object by calling request.getSession(). A unique Id is assigned to the session. The Servlet container also sets a Cookie in the header of the HTTP response with cookie name and the unique session ID as its value.
5. The cookie is stored in the user browser, the client (user’s browser) sends this cookie back to the server for all the subsequent requests until the cookie is valid. The Servlet container checks the request header for cookies and get the session information from the cookie and use the associated session from the server memory.

**SOURCE CODE :**

**login.jsp:**

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<form method="post" action="servelet1">

<table>

<tr>

<td>User Name:</td>

<td><input type="text" name="uname"></td>

</tr>

<tr>

<td>Password:</td>

<td><input type="password" name="upass"></td>

</tr>

<tr>

<td><input type="submit" value="Login"></td>

</tr>

</table>

</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.Cookie;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\* Servlet implementation class servelet1

\*/

@WebServlet("/servelet1")

public class servelet1 extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public servelet1() {

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("uname");

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

pwriter.print(" hello "+name+"!!!! ");

pwriter.print(" your password is: "+password);

//Creating two cookies

Cookie c1=new Cookie("Username",name);

Cookie c2=new Cookie("UserPassword",password);

//Adding the cookies to response header

response.addCookie(c1);

response.addCookie(c2);

pwriter.print(" <a href='servelet2'>view details</a>");

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);

}

}

**Servlet2:**

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.Cookie;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\* Servlet implementation class servelet2

\*/

@WebServlet("/servelet2")

public class servelet2 extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public servelet2() {

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();

//Reading cookies

Cookie c[]=request.getCookies();

//Displaying user name value from cookie

pwriter.print("Name: "+c[0].getValue());

//Displaying password value from cookie

pwriter.print("Password: "+c[1].getValue());

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

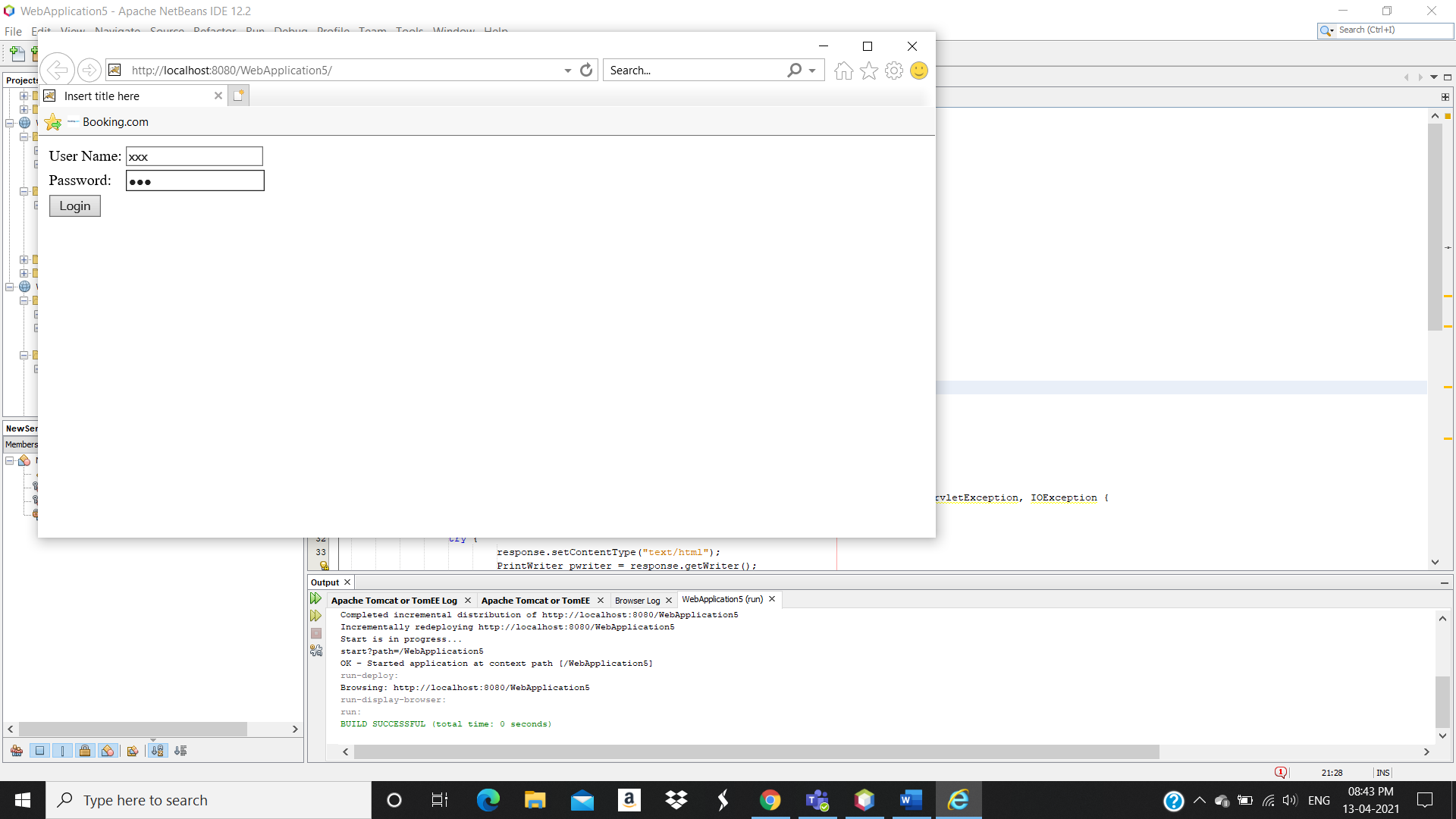
doGet(request, response);

}

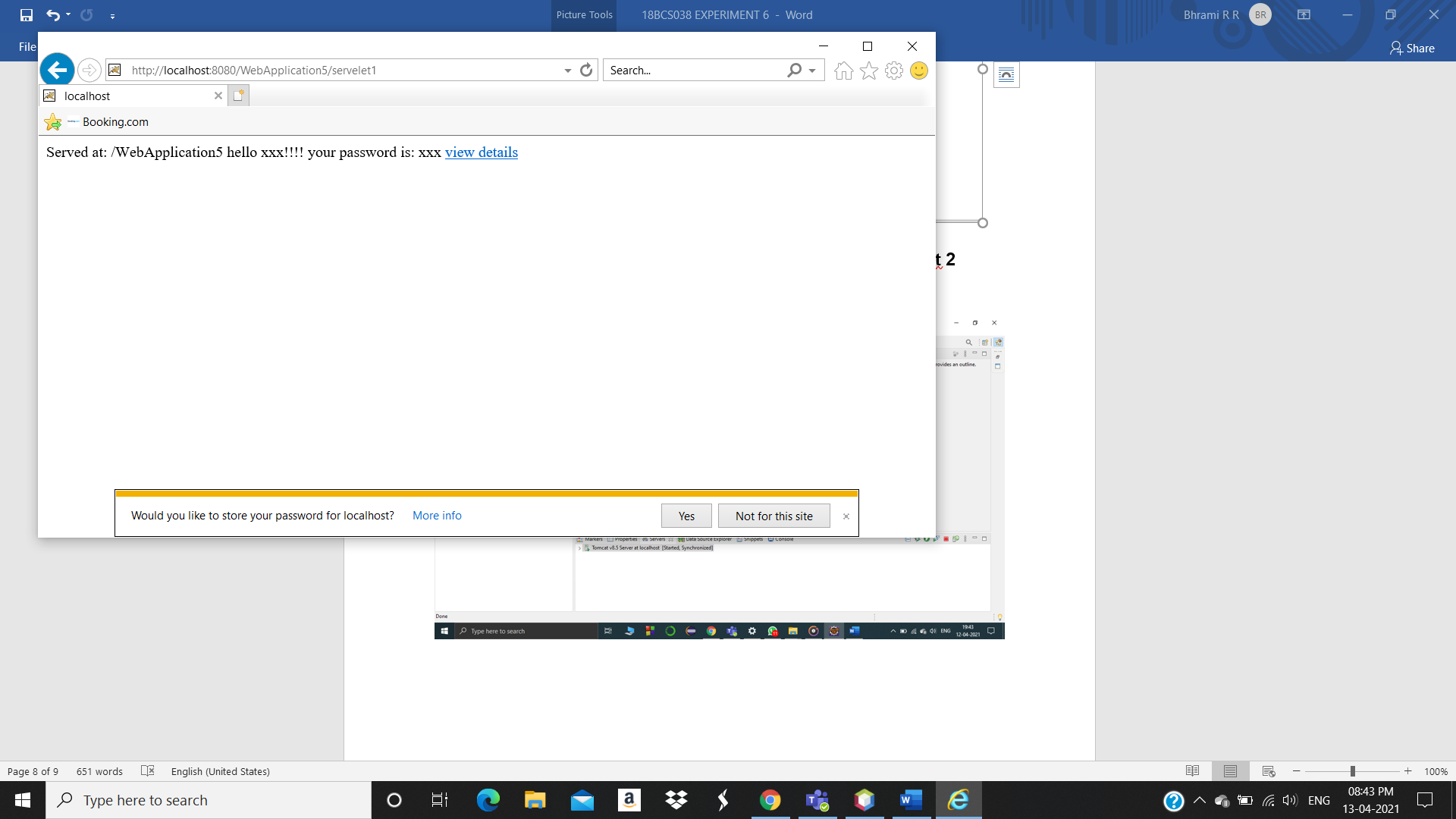
}

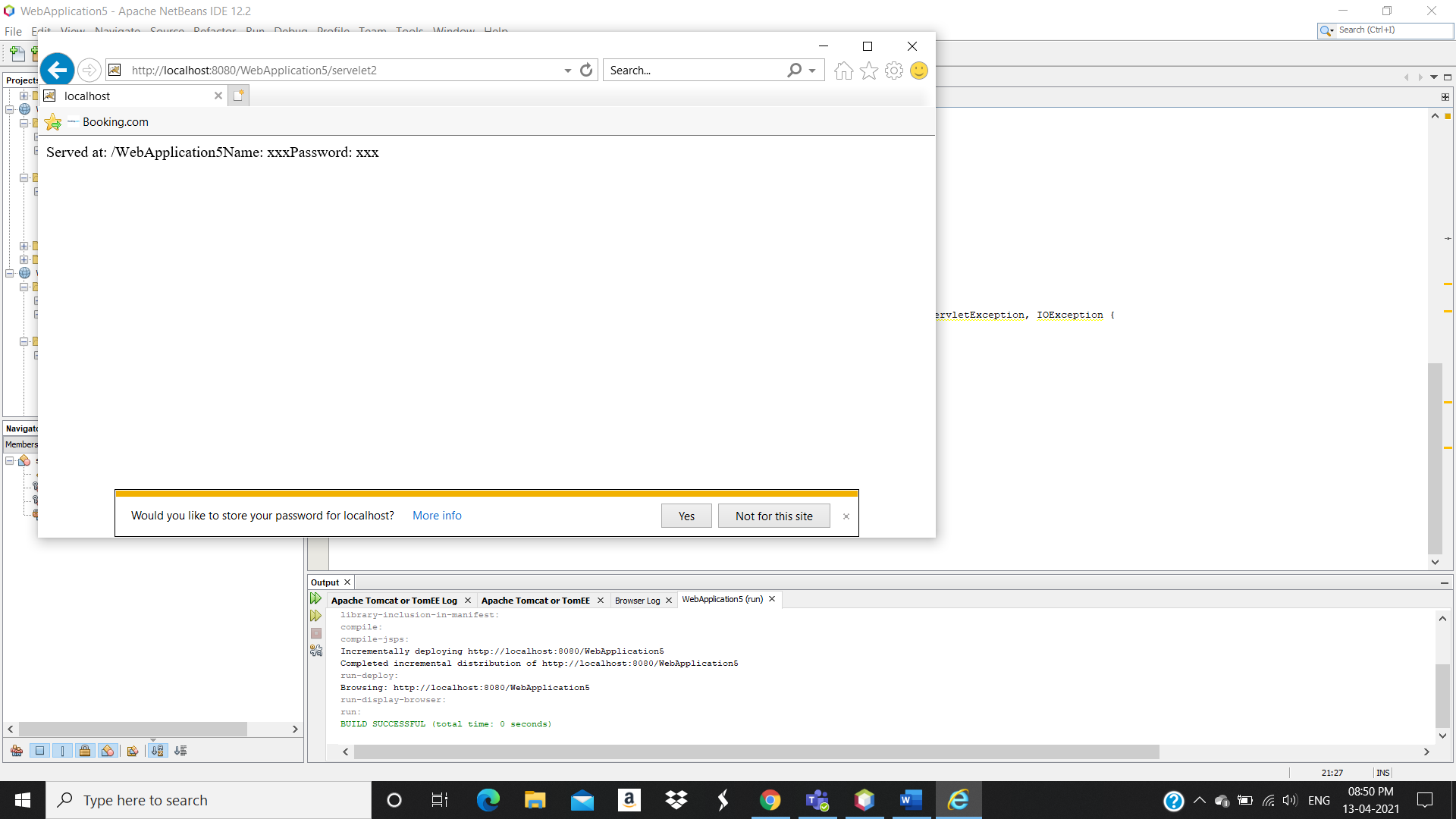
**OUTPUT:**

**Getting input from client-side:**



**Username and password are sent from servelet 1 to servelet 2 using sessions.**





**RESULT:**

Thus the JSP form is developed which collects user registration and login with cookies.