**Java Servlet and JSP.**

**Student Name:** Advanced Internet Programming

**Subject Code:** CAP716/20CAP726

**UID: 20MCA1232 Section/Group:2A**

**Semester: 1 Date of Performance: 24-OCT-2020**

**Experiment No. 2.1**

**Task to be done:**

**Experiment No. 1:** Write an application in java servlet/JSP making registration of the students having multiple records and also create the login module for checking the authentic information that has been inserted at the time of registration.

1. **Algorithm/Flowchart :**

Index.html

**A)**

unsuccesful

succesfull

Check login

**B)**

signUp.html

unsuccesful

succesfull

Check registered

1. **Dataset:** name: Vivek Rawat |username:vivek123 | password:123
2. **Code for experiment/practical:**

**Index.html**

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<h3 align="center">Login</h3>

<form action="Auth" method="post" id="authentication"></form>

<table width="650" height="70" border="0" align="center">

<tr>

<td>

<label for="username" form="authentication">Username</label>

<input type="text" name="username" placeholder="enter username" form="authentication">

<label for="apssword" form="authentication">Password</label>

<input type="password" name="password" placeholder="enter password" form="authentication">

<button type="submit" name="submit" value="login" form="authentication" >login</button>

</td>

</tr>

<tr>

<td>

<label for="textDislay" form="authentication">Not Registered</label> <button type="submit"><a href="./signUp.html" style="text-decoration: none; color: black;" >sign up</a></button>

</td>

</tr>

</table>

<br>

</body>

</html>

**signUp.html**

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<h3 align="center">Registration</h3>

<form action="Auth" method="post" id="authentication"></form>

<table width="800" height="70" border="0" align="center">

<tr>

<td>

<label for="name" form="authentication">Name</label>

<input type="text" name="name" placeholder="enter name" form="authentication">

<label for="username" form="authentication">Username</label>

<input type="text" name="username" placeholder="enter username" form="authentication">

<label for="apssword" form="authentication">Password</label>

<input type="password" name="password" placeholder="enter password" form="authentication">

<button type="submit" name="submit" value="signUp" form="authentication" >login</button>

</td>

</tr>

<tr>

<td>

<label for="textDislay" form="authentication"> Registered?</label> <button type="submit"><a href="./index.html" style="text-decoration: none; color: black;" >sign up</a></button>

</td>

</tr>

</table>

</body>

</html>

**Auth.java (Servlet)**

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package com.vivek;

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\*

\* @author Charlie

\*/

public class Auth extends HttpServlet {

PrintWriter out=null;

Connection conn=null;

RequestDispatcher rd=null;

/\*\*

\* Processes requests for both HTTP <code>GET</code> and <code>POST</code>

\* methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

@Override

public void doPost(HttpServletRequest request,HttpServletResponse response) throws IOException

{

try{

out=response.getWriter();

Class.forName("com.mysql.jdbc.Driver");

conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/servlet","root","");

String type=request.getParameter("submit"); //getting submit button value

if(type.equals("login")) //when submit button clicked in index.html

{

String username=request.getParameter("username"); //getting username from form data

String password=request.getParameter("password"); //getting password from form data

String query="select username,password from userData";

Statement stmt=conn.createStatement();

ResultSet rst=stmt.executeQuery(query);

int i=0;

while(rst.next()) // if true i will be equals to 1

{

if(rst.getString(1).equals(username)&&rst.getString(2).equals(password))

{

i=1;

}

}

if(i==1) // when succesfull login

{

out.println("<script>alert('Hello "+username+"')</script>");

request.getRequestDispatcher("./index.html").include(request, response);

System.out.println("<p> inserted successfully</p>");

}

else // when unsuccesfull login

{

out.println("<script>alert('invalid "+username+"')</script>");

request.getRequestDispatcher("./index.html").include(request, response);

}

}

if(type.equals("signUp")) // if submit button clicked on signUp.html

{

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

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

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

String query = " insert into userData (name,username,password)"

+ " values (?, ?, ?)";

PreparedStatement preparedStmt = conn.prepareStatement(query);

preparedStmt.setString (1, name);

preparedStmt.setString (2, username);

preparedStmt.setString (3, password);

if(preparedStmt.executeUpdate()==1) //when data is succesfully inserted in database

{

out.println("<script>alert('succesfully registered "+username+"')</script>");

request.getRequestDispatcher("./signUp.html").include(request, response);

}

else //when data is unable to insert in database

{

out.println("<script>alert('error while registration "+username+"')</script>");

request.getRequestDispatcher("./signUp.html").include(request, response);

}

}

}

catch(Exception e)

{

System.out.println(e.toString());

}

finally{

try {

conn.close();

out.close();

} catch (SQLException ex) {

Logger.getLogger(Auth.class.getName()).log(Level.SEVERE, null, ex);

}

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

/\*\*

\* Handles the HTTP <code>GET</code> method.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

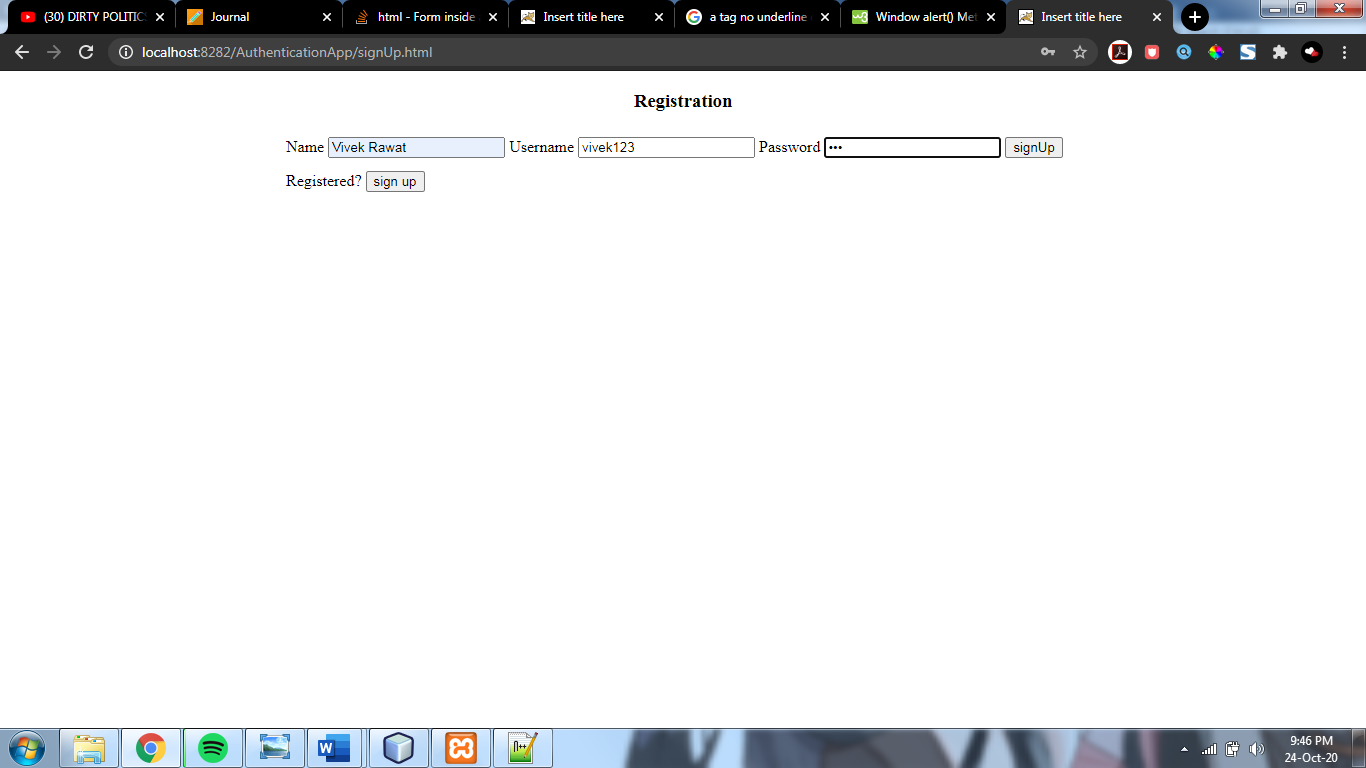
\* @throws IOException if an I/O error occurs

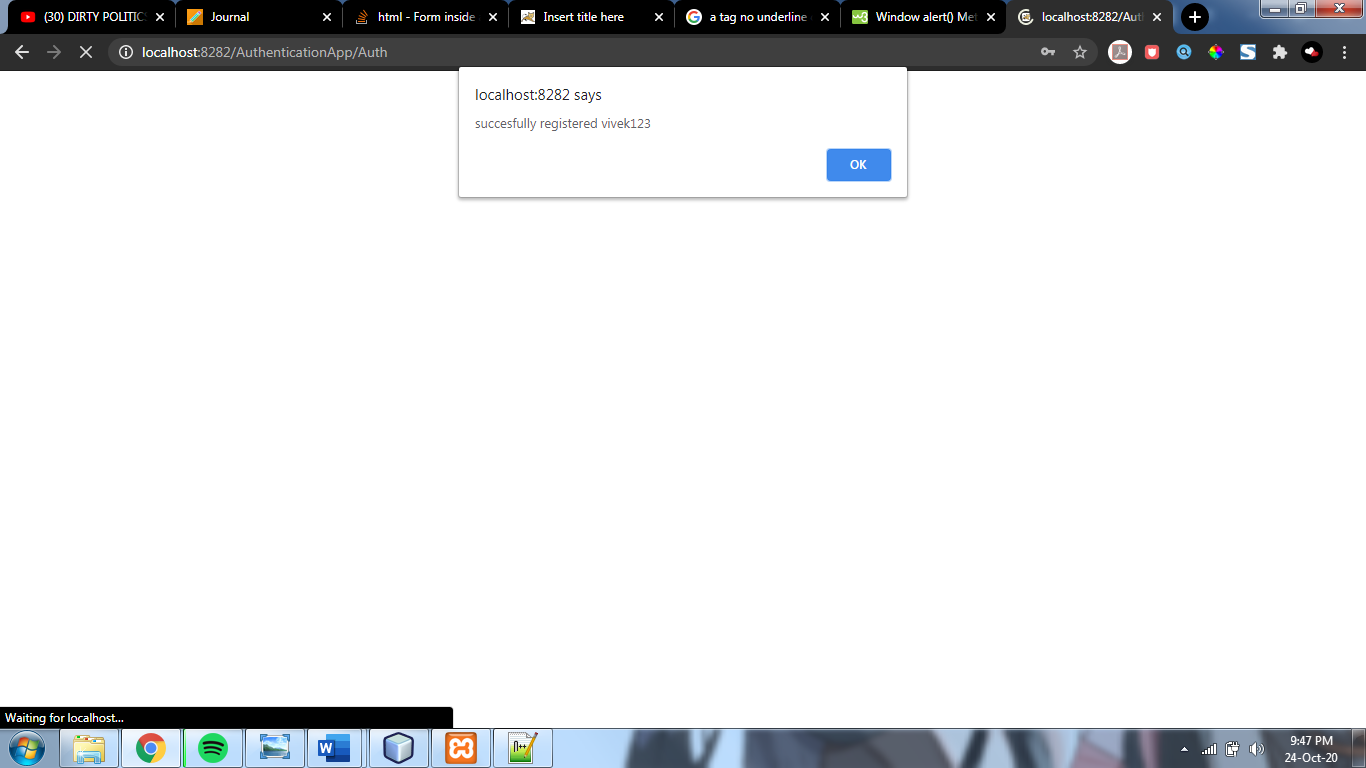
\*/

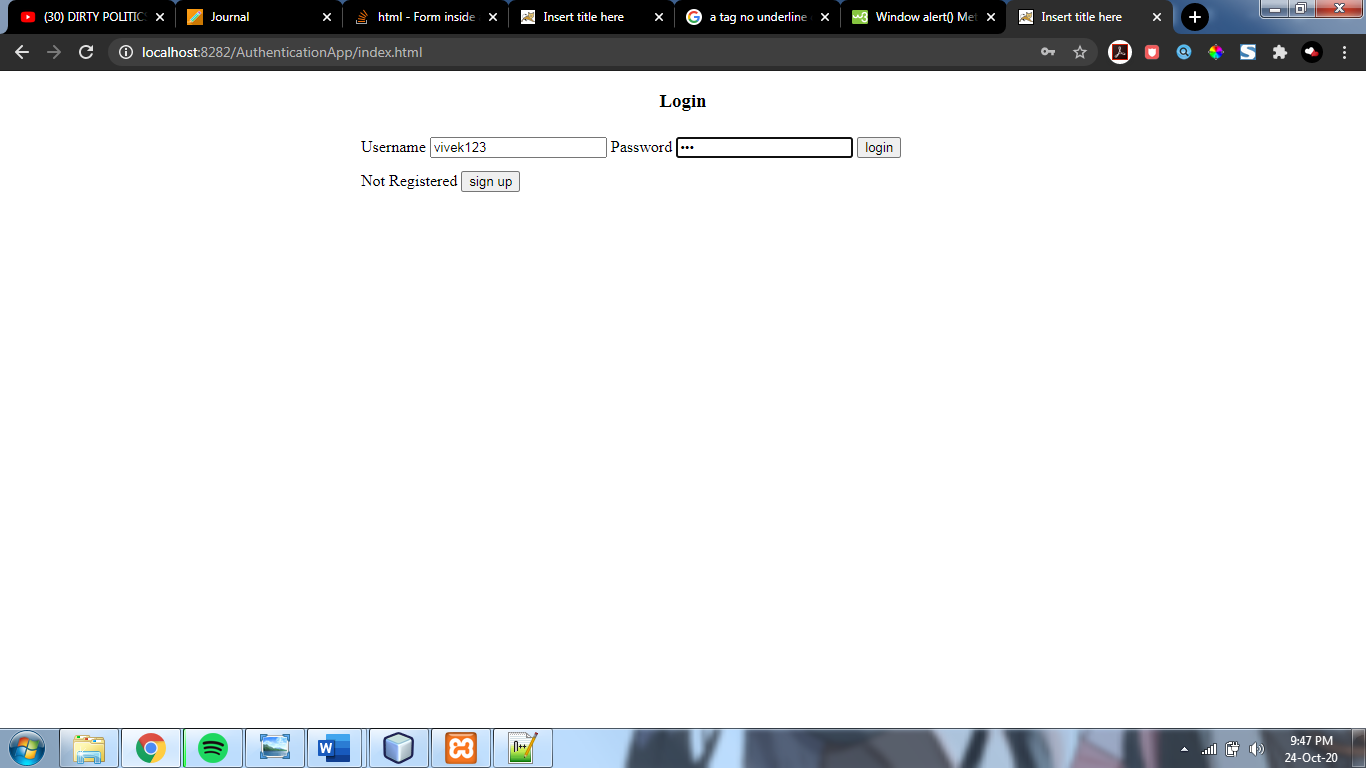
}

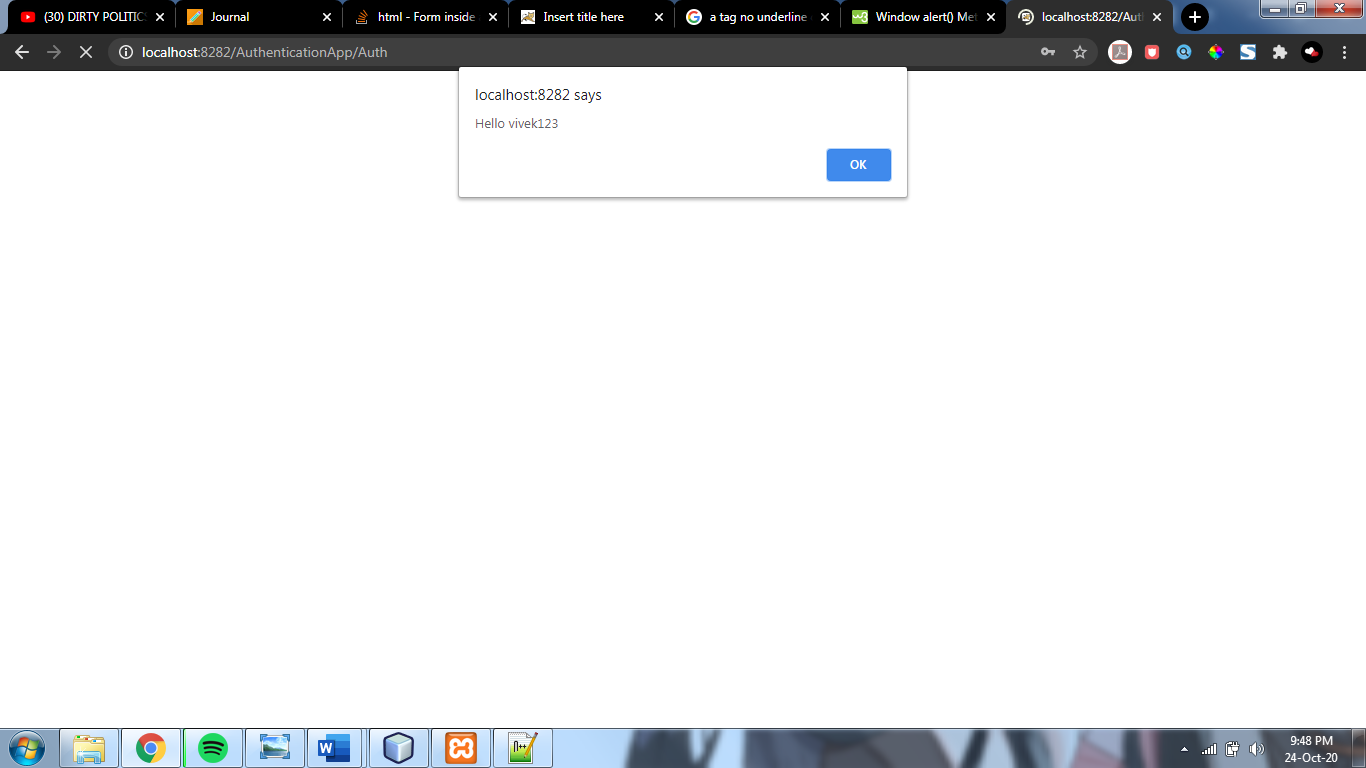
}

1. **Result/Output/Writing Summary:**









**Learning outcomes (What I have learnt):**

**1. java servlet request and response**

**2. Servlet with jdbc**