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## **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

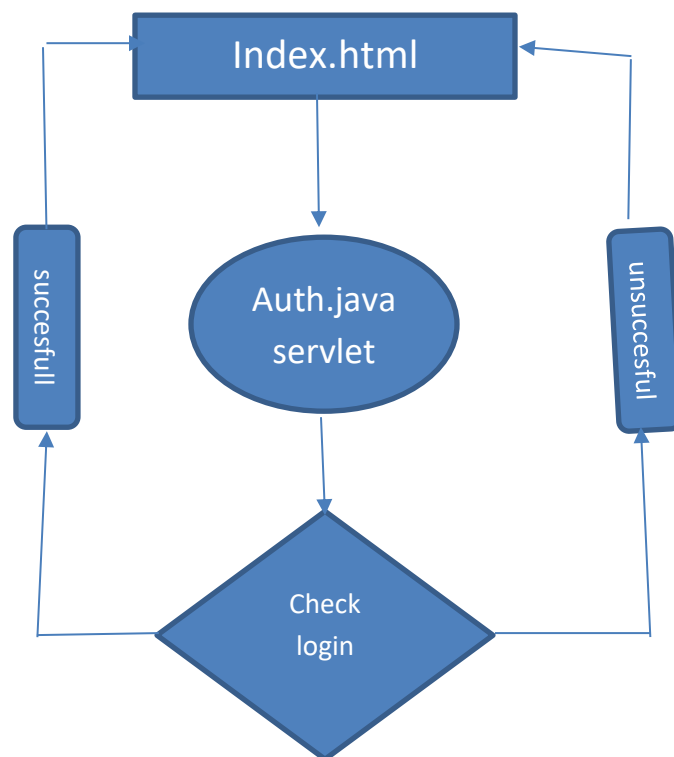
**Experiment No. 2.1**

**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.

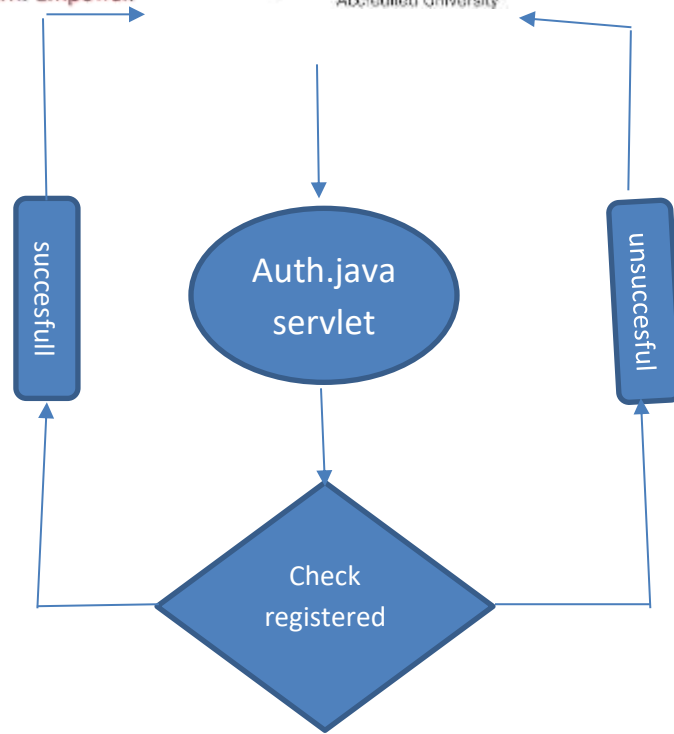
**1. Algorithm/Flowchart :**

**A)**



**B)**





2. **Dataset:** name: Vivek Rawat | username:vivek123 | password:123

3. **Code for experiment/practical:**



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**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>



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</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
 */
}
}
```

#### 4. Result/Output/Writing Summary:





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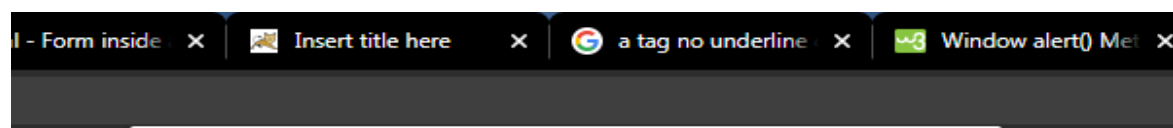
localhost:8282/AuthenticationApp/signUp.html



### Registration

Name  Username  Password

Registered?



localhost:8282 says  
succesfully registered vivek123

OK

### Login

Username  Password

Not Registered

th

localhost:8282 says  
Hello vivek123

OK



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

1. **java servlet request and response**
2. **Servlet with jdbc**