



**Java Institute for Advanced Technology**

**UNIT NAME:** WEB COMPONENT DEVELOPMENT 1

**UNIT ID:** HF2J 04

**ASSIGNMENT:** HOME WORK

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## Contents

web.xml.....	3
index.jsp.....	5
register.jsp .....	7
home.jsp .....	9
LoadUsers.java .....	11
Login.java .....	13
Register.java.....	16
User.java .....	19

## 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>
        <servlet-name>login</servlet-name>
        <servlet-class>com.Login</servlet-class>
    </servlet>
    <servlet>
        <servlet-name>register</servlet-name>
        <servlet-class>com.Register</servlet-class>
    </servlet>
    <servlet>
        <servlet-name>loadUsers</servlet-name>
        <servlet-class>com.LoadUsers</servlet-class>
    </servlet>
```

```
    <servlet-mapping>
        <servlet-name>login</servlet-name>
        <url-pattern>/login</url-pattern>
    </servlet-mapping>
    <servlet-mapping>
        <servlet-name>register</servlet-name>
        <url-pattern>/register</url-pattern>
```

```
</servlet-mapping>
<servlet-mapping>
  <servlet-name>loadUsers</servlet-name>
  <url-pattern>/load-all</url-pattern>
</servlet-mapping>

<session-config>
  <session-timeout>
    129600
  </session-timeout>
  <cookie-config>
    <!--name>Nuwanga</name-->
    <max-age>900</max-age>
  </cookie-config>
</session-config>

</web-app>
```

## index.jsp

<%--

Document : index

Created on : Nov 1, 2021, 11:23:33 AM

Author : NUWAA

--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<%

if (session.getAttribute("login") != null &&  
session.getAttribute("login").equals(Boolean.TRUE)) {

    response.sendRedirect("home.jsp");

}

%>

<!DOCTYPE html>

<html>

    <head>

        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

        <title>JSP Page</title>

    </head>

    <body>

        <h1>Login</h1>

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

            <table>

                <tr>

                    <th>Email</th>

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

                </tr>

                <tr>

                    <th>Password</th>

```
        <td><input type="password" name="password"></td>
    </tr>
    <tr>
        <th><a href="register.jsp">Create New Account</a></th>
        <td><input type="submit" value="Login"></td>
    </tr>
</table>
</form>
</body>
</html>
```

## register.jsp

<%--

Document : register

Created on : Nov 1, 2021, 11:29:11 AM

Author : NUWAA

--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>JSP Page</title>

</head>

<body>

<h1>Create New Account</h1>

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

<table>

<tr>

<th>Name</th>

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

</tr>

<tr>

<th>Email</th>

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

</tr>

<tr>

<th>Password</th>

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

```
</tr>
<tr>
  <th>Address</th>
  <td><input type="text" name="address"></td>
</tr>
<tr>
  <th>Phone</th>
  <td><input type="text" name="phone"></td>
</tr>
<tr>
  <th><a href="index.jsp">Login</a></th>
  <td><input type="submit" value="Register"></td>
</tr>
</table>
</form>
</body>
</html>
```



## home.jsp

```
<%--
```

```
    Document   : home
```

```
    Created on : Nov 1, 2021, 1:00:06 PM
```

```
    Author    : NUWAA
```

```
--%>
```

```
<%@page import="java.util.ArrayList"%>
```

```
<%@page import="com.User"%>
```

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
```

```
<%
```

```
    if (session.getAttribute("login") == null || session.getAttribute("login").equals(
Boolean.FALSE)) {
```

```
        response.sendRedirect("index.jsp");
```

```
    }
```

```
    String email = "";
```

```
    if (session.getAttribute("email") != null) {
```

```
        email = session.getAttribute("email").toString();
```

```
    }
```

```
%>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
    <head>
```

```
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
```

```
        <title>Home</title>
```

```
    </head>
```

```
    <body>
```

```
        <h1>Home</h1>
```

```
    <%
```

```
        ServletContext sc = getServletContext();
```

```
if (sc.getAttribute("users") != null) {  
    ArrayList<User> users = (ArrayList<User>) sc.getAttribute("users");  
    for (User u : users) {  
        if (u.getEmail().equals(email)) {  
            out.write("Name: " + u.getName()+"<br>");  
            out.write("Email: " + u.getEmail()+"<br>");  
            out.write("Address: " + u.getAddress()+"<br>");  
            out.write("Phone: " + u.getPhone()+"<br>");  
            break;  
        }  
    }  
}  
%>  
</body>  
</html>
```

## LoadUsers.java

```
/*
 * 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;

import java.io.IOException;
import java.io.PrintWriter;
import java.util.ArrayList;
import javax.servlet.ServletContext;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/**
 *
 * @author NUWAA
 */
public class LoadUsers extends HttpServlet{

    @Override
    protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws
ServletException, IOException {
        resp.setContentType("text/html");
        PrintWriter out = resp.getWriter();
        ServletContext sc = getServletContext();
        if(sc.getAttribute("users") != null){
```

```
ArrayList<User> users = (ArrayList<User>) sc.getAttribute("users");

for(User u : users){
    out.write("Name "+u.getName()+"<br>");
    out.write("Email "+u.getEmail()+"<br>");
    out.write("Password "+u.getPassword()+"<br>");
    out.write("Address "+u.getAddress()+"<br>");
    out.write("Phone "+u.getPhone()+"<br>");
    out.write("<br><br>");
}
}
}

}
```

## Login.java

```
/*
 * 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;

import java.io.IOException;
import java.util.ArrayList;
import javax.servlet.ServletContext;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

/**
 *
 * @author NUWAA
 */
public class Login extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws
ServletException, IOException {
        resp.sendRedirect("index.jsp");
    }

    @Override
```

```
protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws  
ServletException, IOException {
```

```
    String email = req.getParameter("email");
```

```
    String password = req.getParameter("password");
```

```
    ServletContext sc = getServletContext();
```

```
    boolean login = false;
```

```
    if (sc.getAttribute("users") != null) {
```

```
        ArrayList<User> users = (ArrayList<User>) sc.getAttribute("users");
```

```
        for (User u : users) {
```

```
            if(u.getEmail().equals(email)){
```

```
                if(u.getPassword().equals(password)){
```

```
                    login = true;
```

```
                    break;
```

```
                }
```

```
            }
```

```
        }
```

```
    }
```

```
    if(login){
```

```
        HttpSession session = req.getSession();
```

```
        session.setAttribute("login", true);
```

```
        session.setAttribute("email", email);
```

```
        resp.sendRedirect("home.jsp?email="+email);
```

```
    }else{
```

```
        resp.sendRedirect("index.jsp");
```

```
    }
```

}

}

## Register.java

```
/*
 * 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;

import java.io.IOException;
import java.util.ArrayList;
import javax.servlet.ServletContext;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/**
 *
 * @author NUWAA
 */
public class Register extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws
ServletException, IOException {
        resp.sendRedirect("register.jsp");
    }

    @Override
```



```
protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws
ServletException, IOException {
```

```
    String name = req.getParameter("name");
    String email = req.getParameter("email");
    String password = req.getParameter("password");
    String address = req.getParameter("address");
    String phone = req.getParameter("phone");
```

```
    ArrayList<User> users = new ArrayList();
```

```
    ServletContext sc = getServletContext();
```

```
    Object usersObject = sc.getAttribute("users");
```

```
    if (usersObject != null) {
        users = (ArrayList) usersObject;
    }
```

```
    boolean b = true;
    for (User u : users) {
        if (u.getEmail().equals(email)) {
            b = false;
            break;
        }
    }
```

```
    if (b) {
        User user = new User();
        user.setName(name);
        user.setEmail(email);
        user.setPassword(password);
```

```
        user.setAddress(address);
        user.setPhone(phone);

        users.add(user);

        sc.setAttribute("users", users);
        resp.sendRedirect("index.jsp");
    } else {
        resp.getWriter().write("User " + email + " Already exist");
    }

}

}
```

## User.java

```
/*
 * 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;

/**
 *
 * @author NUWAA
 */
public class User {
    private String name;
    private String email;
    private String password;
    private String address;
    private String phone;

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getEmail() {
        return email;
    }
}
```

```
}
```

```
public void setEmail(String email) {  
    this.email = email;  
}
```

```
public String getPassword() {  
    return password;  
}
```

```
public void setPassword(String password) {  
    this.password = password;  
}
```

```
public String getAddress() {  
    return address;  
}
```

```
public void setAddress(String address) {  
    this.address = address;  
}
```

```
public String getPhone() {  
    return phone;  
}
```

```
public void setPhone(String phone) {  
    this.phone = phone;  
}
```

}