

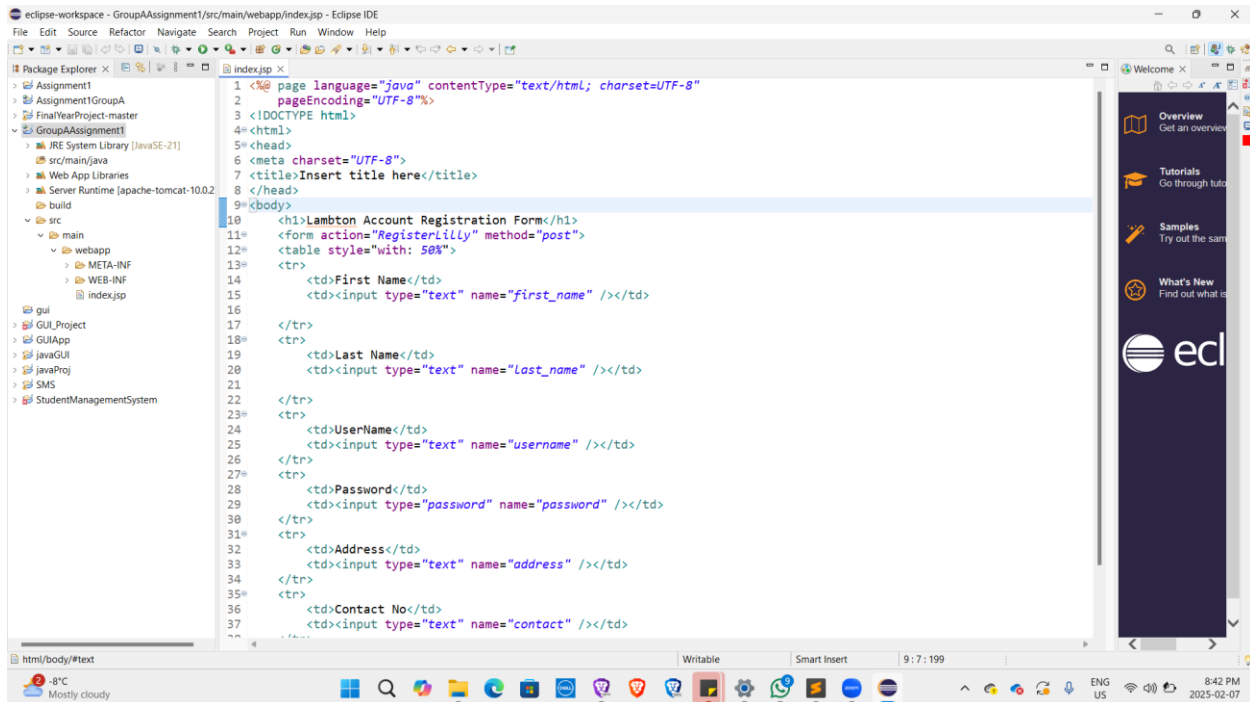
Course Name: Programming JAVA

Course Code: CSD 4464

Assignment-1

Group A

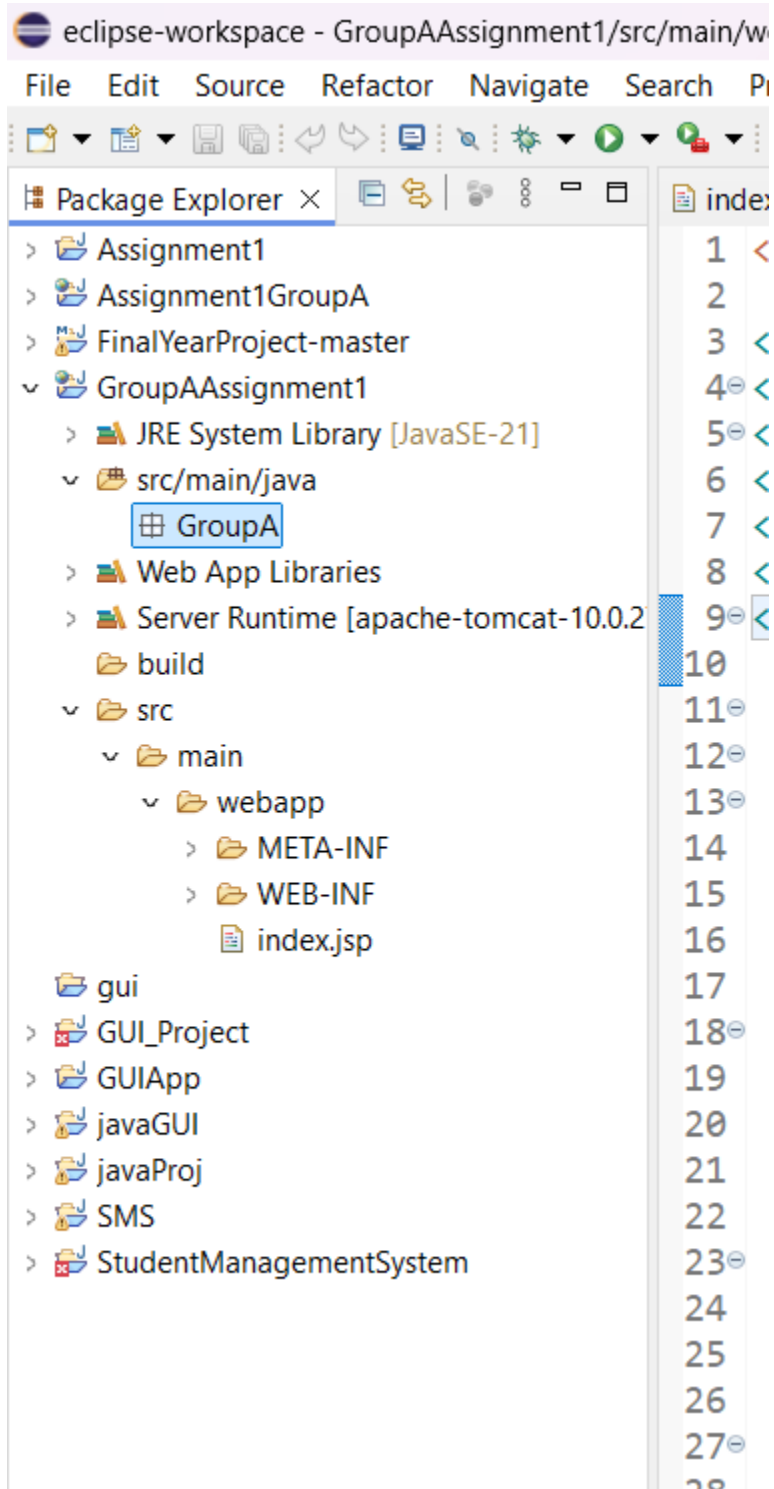
1. Dynamic Web Project [GroupAAssignment1] creation with the index.jsp



The screenshot shows the Eclipse IDE interface. The Package Explorer on the left displays the project structure: Assignment1 > GroupAAssignment1 > src > main > webapp > index.jsp. The main editor window shows the content of index.jsp, which is a JSP page for a registration form. The code includes a page declaration, a DOCTYPE, a title, and a form with input fields for First Name, Last Name, Username, Password, Address, and Contact No. The form is styled with a table and has an action attribute set to 'RegisterLilly' and a method of 'post'.

```
1 <% page language="java" contentType="text/html; charset=UTF-8"%>
2 pageEncoding="UTF-8"%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6 <meta charset="UTF-8"%>
7 <title>Insert title here</title>
8 </head>
9 <body>
10 <h1>Lambton Account Registration Form</h1>
11 <form action="RegisterLilly" method="post">
12 <table style="width: 50%">
13 <tr>
14 <td>First Name</td>
15 <td><input type="text" name="first_name" /></td>
16 </tr>
17 <tr>
18 <td>Last Name</td>
19 <td><input type="text" name="Last_name" /></td>
20 </tr>
21 <tr>
22 <td>UserName</td>
23 <td><input type="text" name="username" /></td>
24 </tr>
25 <tr>
26 <td>Password</td>
27 <td><input type="password" name="password" /></td>
28 </tr>
29 <tr>
30 <td>Address</td>
31 <td><input type="text" name="address" /></td>
32 </tr>
33 <tr>
34 <td>Contact No</td>
35 <td><input type="text" name="contact" /></td>
36 </tr>
37 </table>
38 </form>
39 </body>
40 </html>
```

2. Package Creation [GroupA]



3. Servlet Creation [RegisterGroupA] under the package GroupA

The screenshot shows the Eclipse IDE with the 'Create Servlet' dialog box open. The dialog is titled 'Create Servlet' and contains the following fields:

- Project: GroupAAssignment1
- Source folder: /GroupAAssignment1/src/main/java
- Java package: GroupA
- Class name: RegisterGroupA
- Superclass: jakarta.servlet.http.HttpServlet

A warning message is displayed: 'Warning: By convention, package names usually start with a lowercase letter'. The 'Finish' button is highlighted.

The background shows the 'index.jsp' file with the following code:

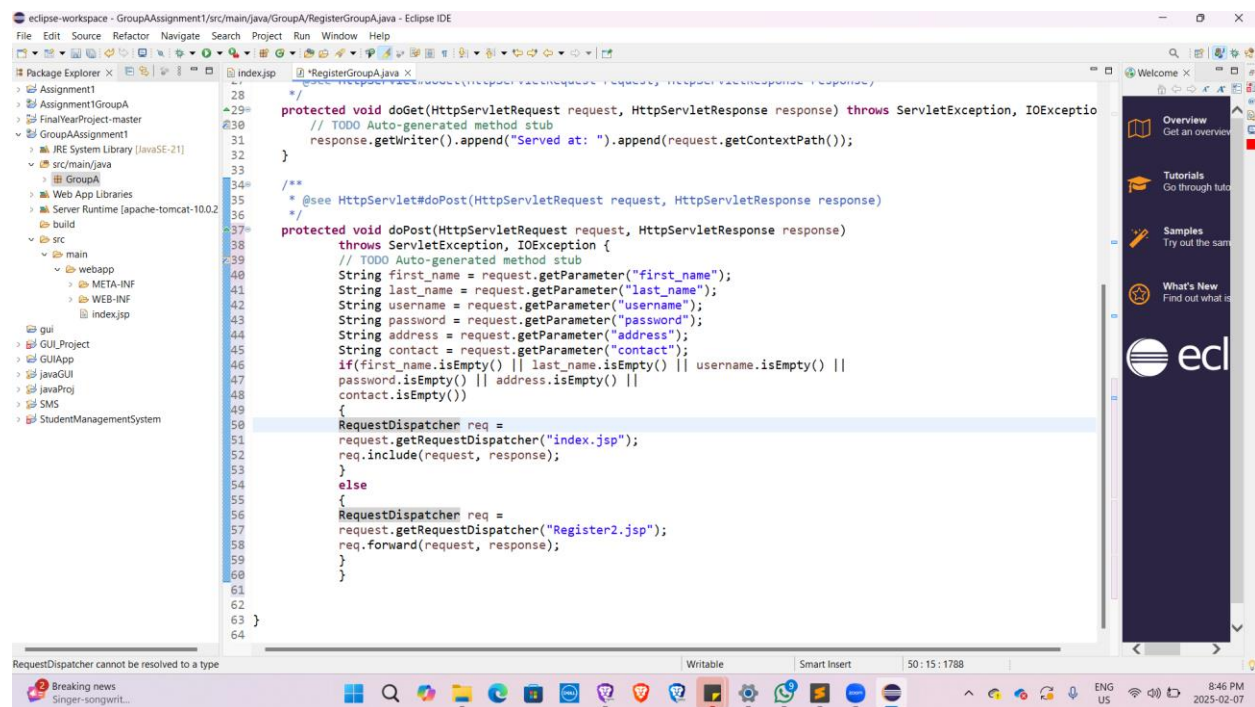
```
1 <%@ page language="java" contentType="text/html; charset=UTF-8" %>
2   pageEncoding="UTF-8"%>
3   <!DOCTYPE html>
```

The Package Explorer on the left shows the project structure:

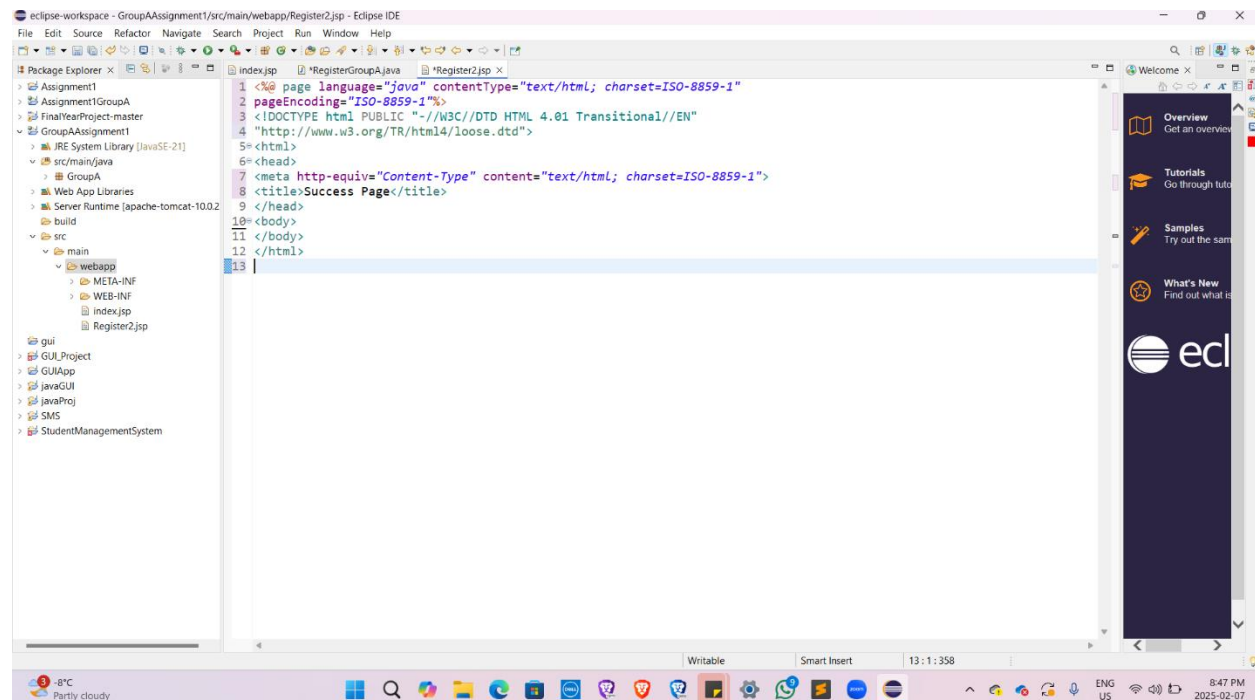
- Assignment1
- Assignment1GroupA
- FinalYearProject-master
- GroupAAssignment1
 - JRE System
 - src/main/java
 - GroupA
 - Web App L
 - Server Run
 - build
 - src
 - main
 - web
 - gui
 - GUI_Project
 - GUIApp
 - javaGUI
 - javaProj
 - SMS
 - StudentManag

4. Updated doPost() method in RegisterGroupA servlet

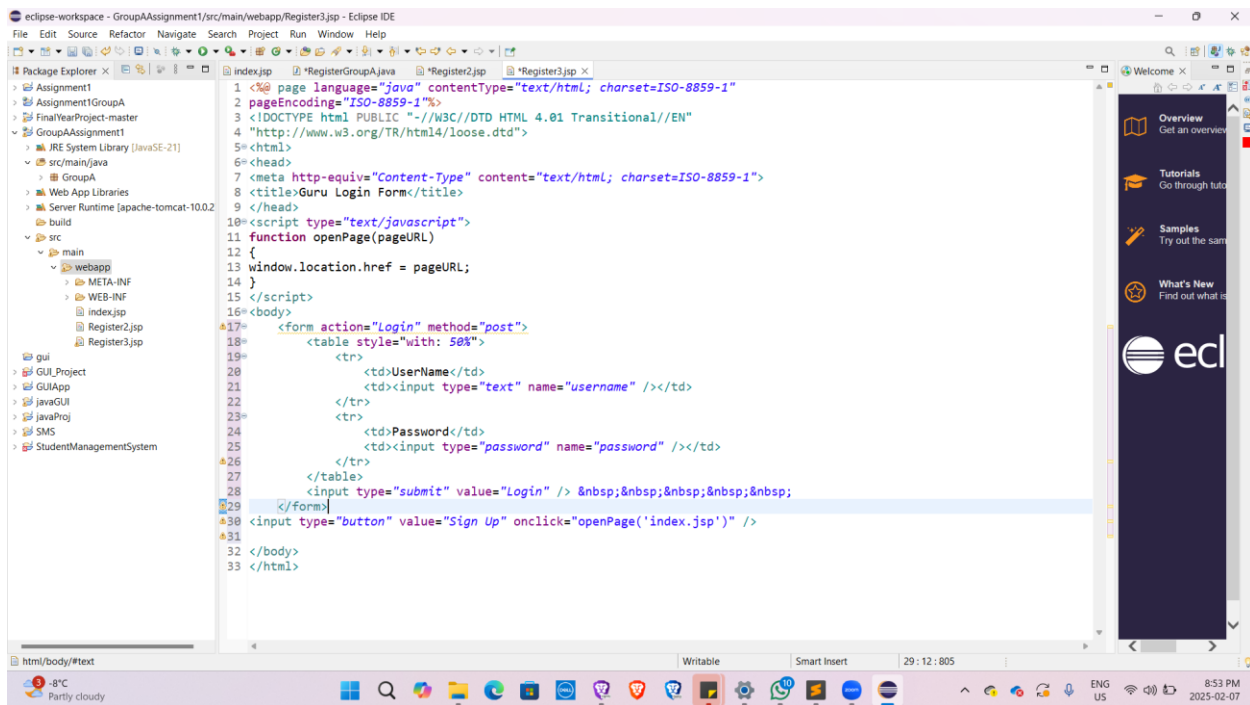
Here, we imported **RequestDispatcher** from **jakarta.servlet**



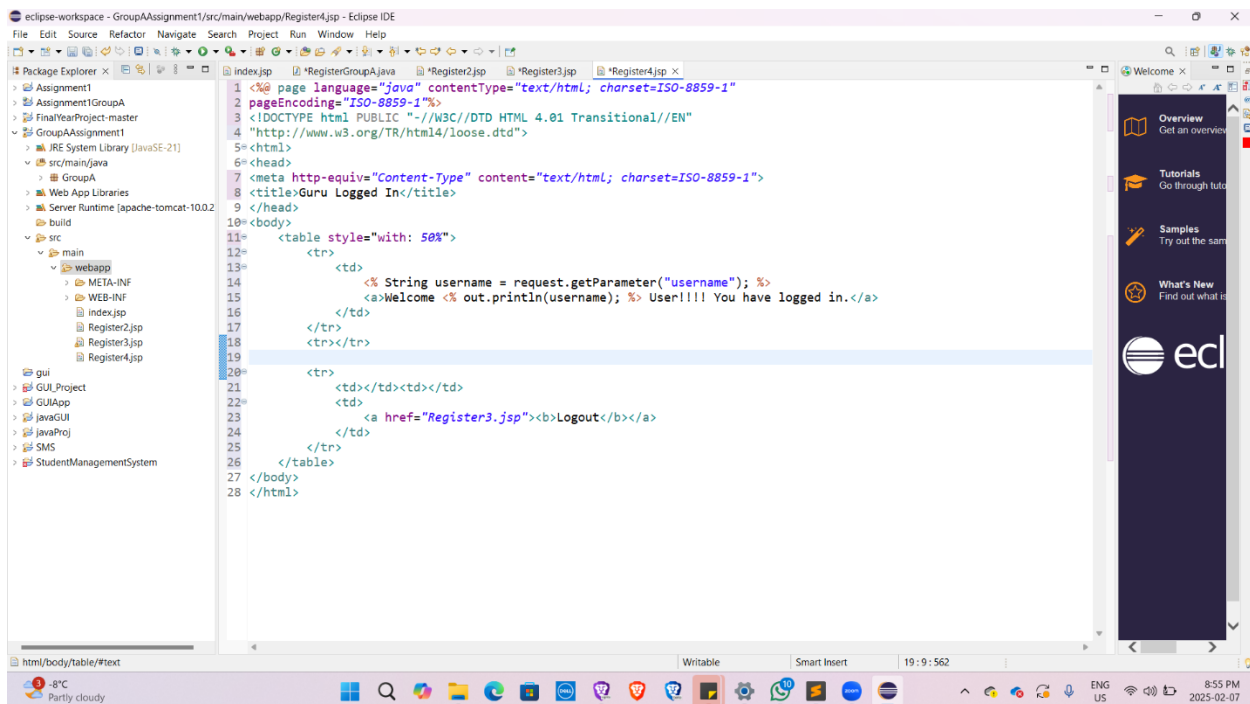
5. Created Register2.jsp file



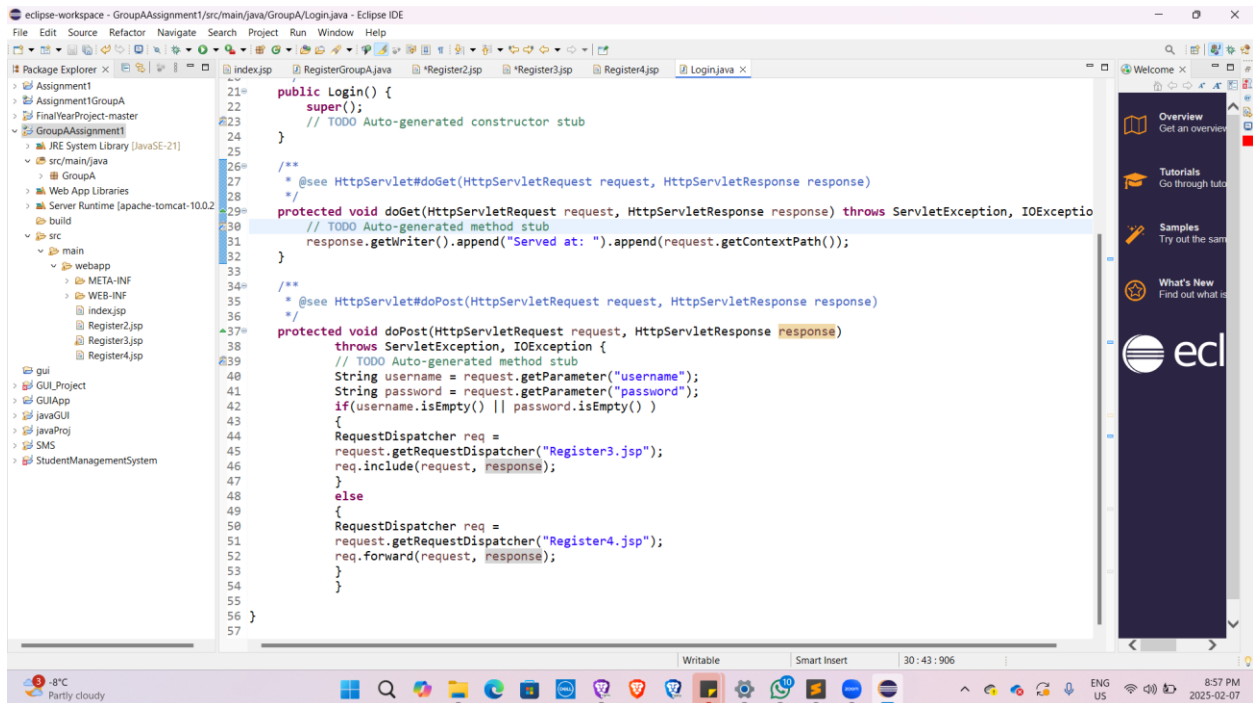
6. Created Register3.jsp file



7. Created Register4.jsp file



8. Created Login Servlet and updated the doPost() method and imported RequestDispatcher library

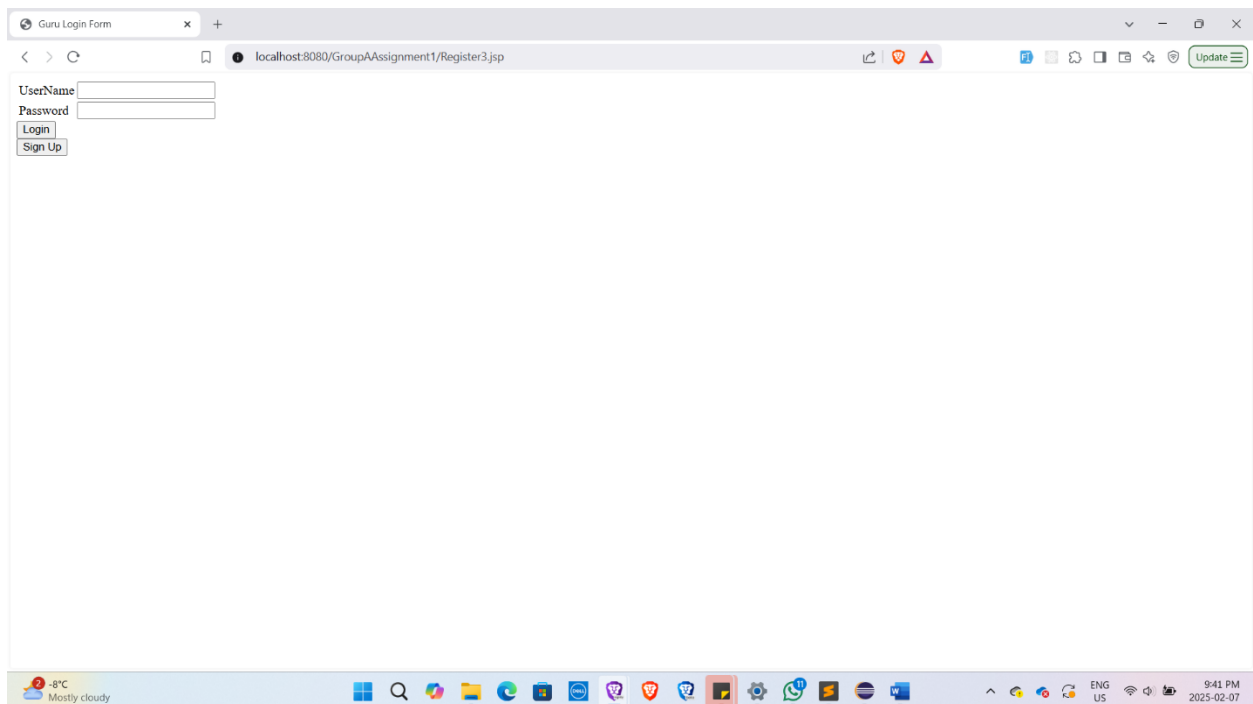


```
public Login() {
    super();
    // TODO Auto-generated constructor stub
}

/**
 * @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());
}

/**
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    // TODO Auto-generated method stub
    String username = request.getParameter("username");
    String password = request.getParameter("password");
    if(username.isEmpty() || password.isEmpty()) {
        RequestDispatcher req =
            request.getRequestDispatcher("Register3.jsp");
        req.include(request, response);
    }
    else {
        RequestDispatcher req =
            request.getRequestDispatcher("Register4.jsp");
        req.forward(request, response);
    }
}
```

9. Output after running the Register3.jsp



Guru Login Form

localhost:8080/GroupAssignment1/Register3.jsp

UserName

Password

Login

Sign Up

10. Sign up form

Sign up

localhost:8080/GroupAAssignment1/index.jsp

Lambton Account Registration Form

First Name

Last Name

UserName

Password

Address

Contact No

8°C Partly cloudy

10:15 PM 2025-02-07

Insert title here

localhost:8080/GroupAAssignment1/index.jsp

Lambton Account Registration Form

First Name

Last Name

UserName

Password

Address

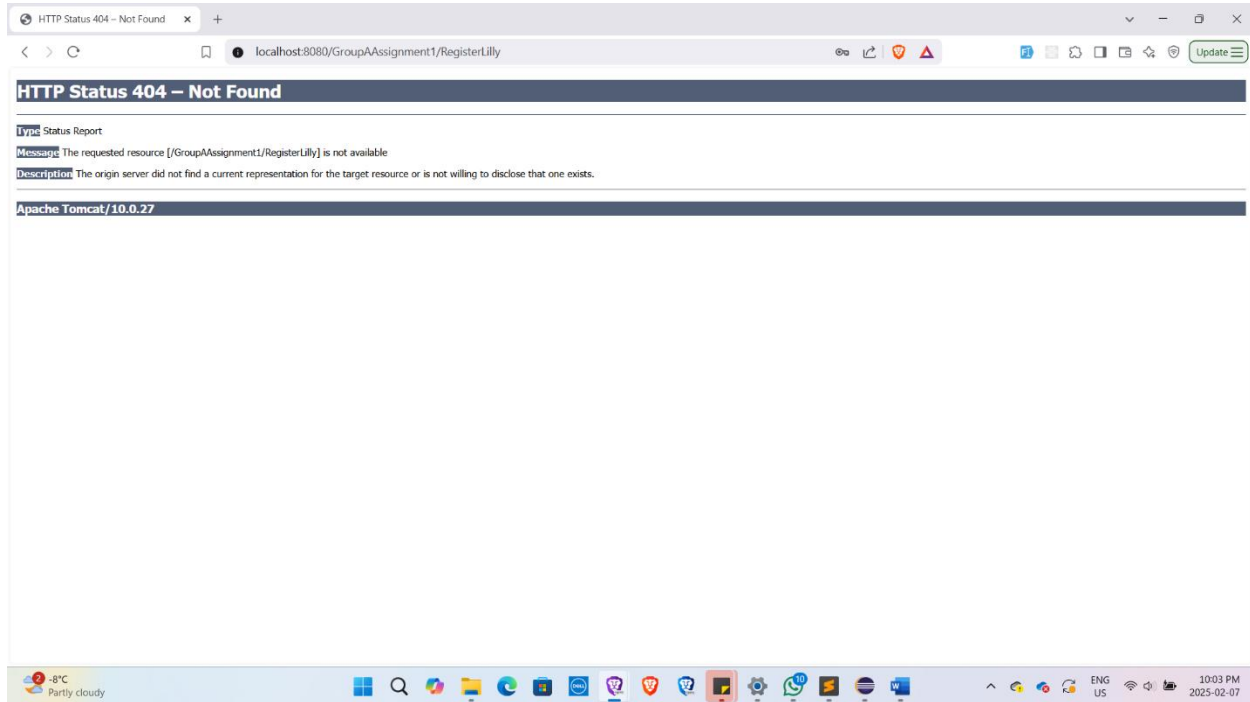
Contact No

8°C Mostly cloudy

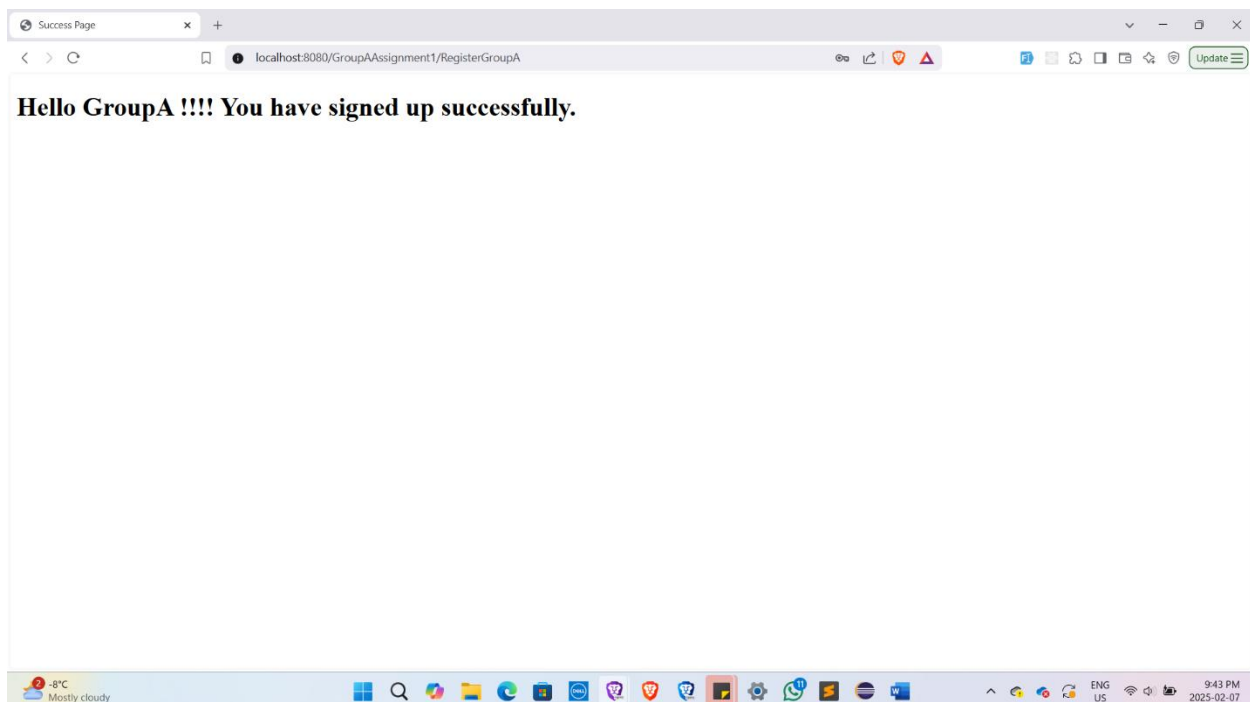
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While signing up, we were getting this error at first. In the form action of the sign up form of index.jsp file, it was calling the RegisterLilly, which was not found. We had

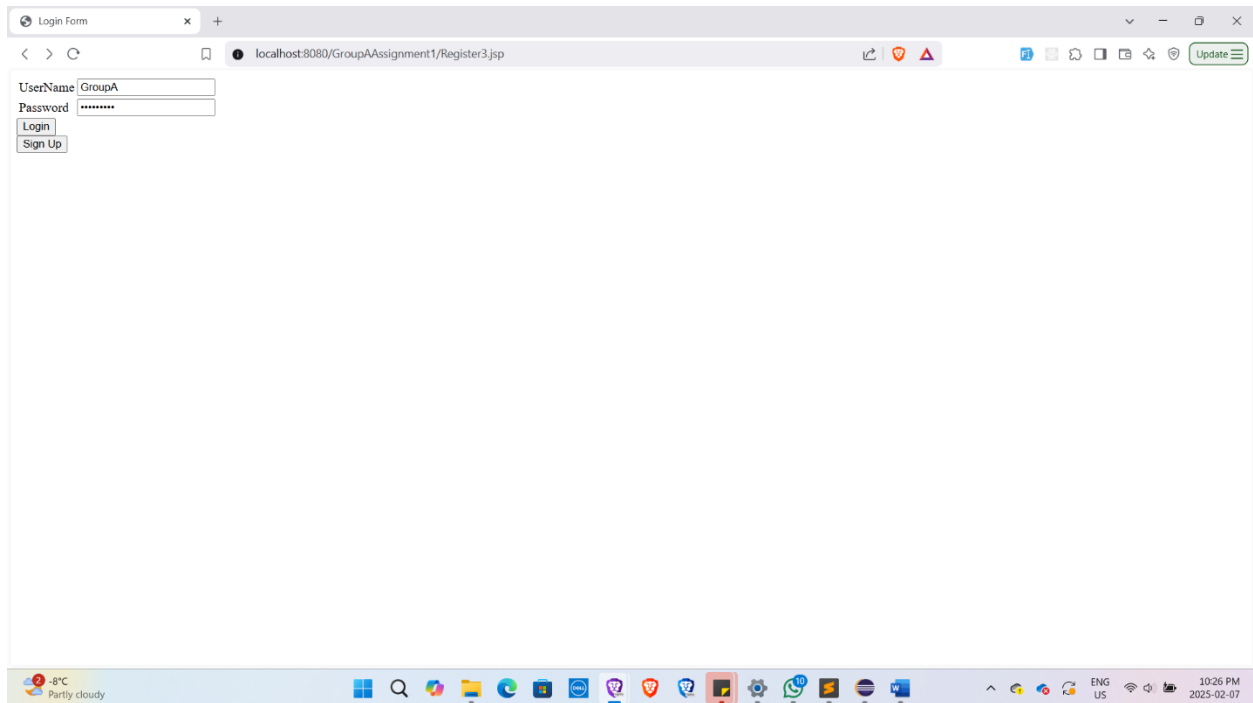
RegisterGroupA servlet in our project, so we updated the form's action attribute so that it called RegisterGroupA on click of submit button.



When the sign up was succeed, there was not any message showing up. So, we added a success message after successful sign up.



11. Login form



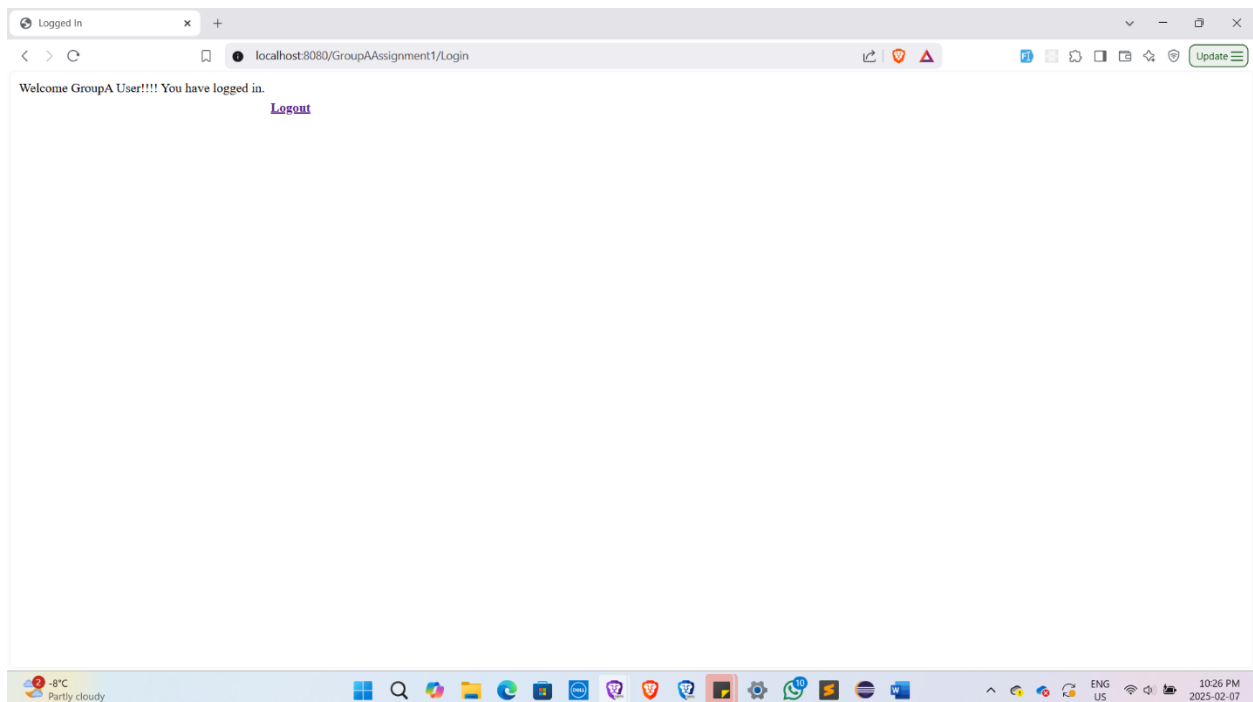
Browser window: Login Form

URL: localhost:8080/GroupAAssignment1/Register3.jsp

Form fields:

- UserName: GroupA
- Password: *****

Buttons: Login, Sign Up



Browser window: Logged In

URL: localhost:8080/GroupAAssignment1/Login

Message: Welcome GroupA User!!!! You have logged in.

Link: [Logout](#)