

Day - 7

In the previous session, we had seen that when a user requests for login.html, then the login page was displayed and if the user entered a valid username and password, then a message welcoming the user was displayed.

But when the user entered invalid credentials, a message saying “Invalid login details. Please try again!” was displayed, yet no option to try again was provided.

Let us now do some modifications in our code, if the user enters invalid login details then along with the message, the user should also be given a chance to try again, by sending an HTML page as a response wherein the user can try again.

We will add a new table in our database called drives, wherein if a user logs in with their valid username & password then along with the welcome message, they should also be able to see all the different drives conducted in TapAcademy.

First, create an HTML file and name it as “invalidlogin.html” and type in the following-

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Login</title>
</head>
<body>
    <h3>Invalid login details.Please try again!</h3>
    <form action="login" method="post">
        <label>Username</label>
        <input type="text" name="username"><br/>
        <label>Password</label>
        <input type="text" name="password"><br/>
        <input type="submit">
    </form>
</body>
</html>
```

Now when a user enters invalid login details, then the request must be forwarded to the **invalidlogin.html** file and whenever we want to send a request from one resource to another, we have to use the **Request Dispatcher object**.

Let us implement this in our code-

```
package com.tap.student;

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 javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class Exmp extends HttpServlet {
    Connection con = null;
    PreparedStatement pstmt = null;
    ResultSet res = null;
    String url = "jdbc:mysql://localhost:3306/tapacademy";
    String un = "root";
    String pwd = "root";

    @Override
    public void init() throws ServletException {
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            con = DriverManager.getConnection(url, un, pwd);

        } catch (Exception e) {
            e.printStackTrace();
        }
    }

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

        resp.setContentType("text/html");
        PrintWriter writer = resp.getWriter();

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

        try {
            String query = "select * from tapstudent where un = ? and pwd = ?";
            pstmt = con.prepareStatement(query);
            pstmt.setString(1, username);
            pstmt.setString(2, password);
            res = pstmt.executeQuery();

            if (res.next() == true) {
                writer.println("<h3>Welcome "+ res.getString(2)+"!</h3>");
            }
        }
    }
}
```

```

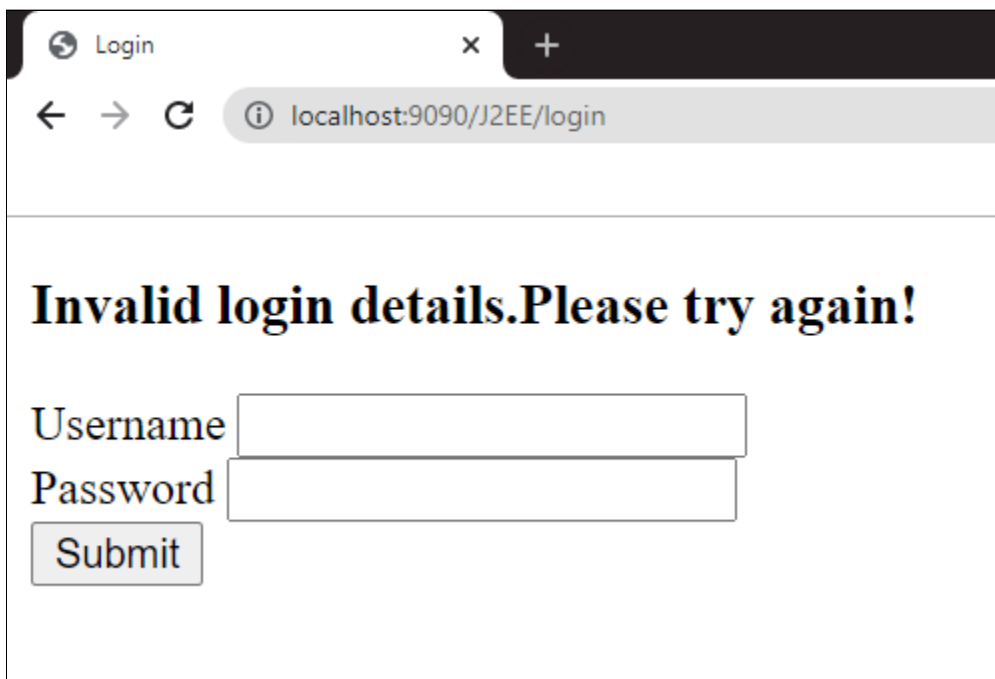
        else {
            RequestDispatcher rd =
req.getRequestDispatcher("/invalidlogin.html");
            rd.forward(req, resp);
        }

    } catch (Exception e) {
        e.printStackTrace();
    }
}

@Override
public void destroy() {
    try {
        res.close();
        pstmt.close();
        con.close();
    } catch (Exception e) {
        e.printStackTrace();
    }
}
}
}

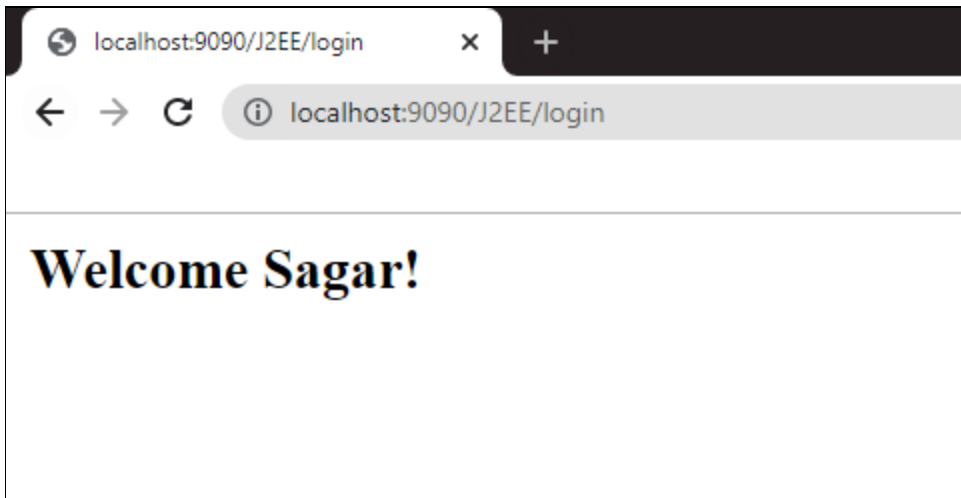
```

And if we enter invalid login details, then the request will be forwarded to **invalidlogin.html** and we will get the output as shown below-



The screenshot shows a web browser window with the title "Login". The address bar displays "localhost:9090/J2EE/login". The main content area features a bold message: "Invalid login details.Please try again!". Below this message are two input fields labeled "Username" and "Password", and a "Submit" button.

But if they enter valid details, then we get the output as shown below-



Now along with this we also need all the different drives conducted at TapAcademy and how are we going to achieve this?

First, create a drives table in the database with the following data-

id	name	10th	12th	grad	profile	packag	skills
1	Softsoft	60	60	60	software developer	3.8	java,sql,html,css
2	Techsoft	50	50	50	software developer	4	java,DS
3	Softech	70	70	70	software developer	7.5	java,python,DS
4	Techsofttech	0	0	0	softwaredeveloper	4.2	python,django
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

And type in the following code in your editor-

```
if (res.next() == true) {
    writer.println("<h3>Welcome "+ res.getString(2)+"!</h3>");
    String query2 = "select * from drives";
    Statement stmt = con.createStatement();
    ResultSet res2 = stmt.executeQuery(query2);

    writer.println("<table>\r\n"
        + "\r\n"
        + "    <tr>\r\n"
        + "        <th>Id</th>\r\n"
        + "        <th>Name</th>\r\n"
        + "        <th>10th</th>\r\n"
        + "        <th>12th</th>\r\n"
        + "        <th>Grad</th>\r\n"
        + "        <th>Profile</th>\r\n"
        + "        <th>Package</th>\r\n"
        + "        <th>Skills</th> \r\n"
        + "    </tr>");

    while(res2.next()==true){
        int id = res2.getInt(1);
```

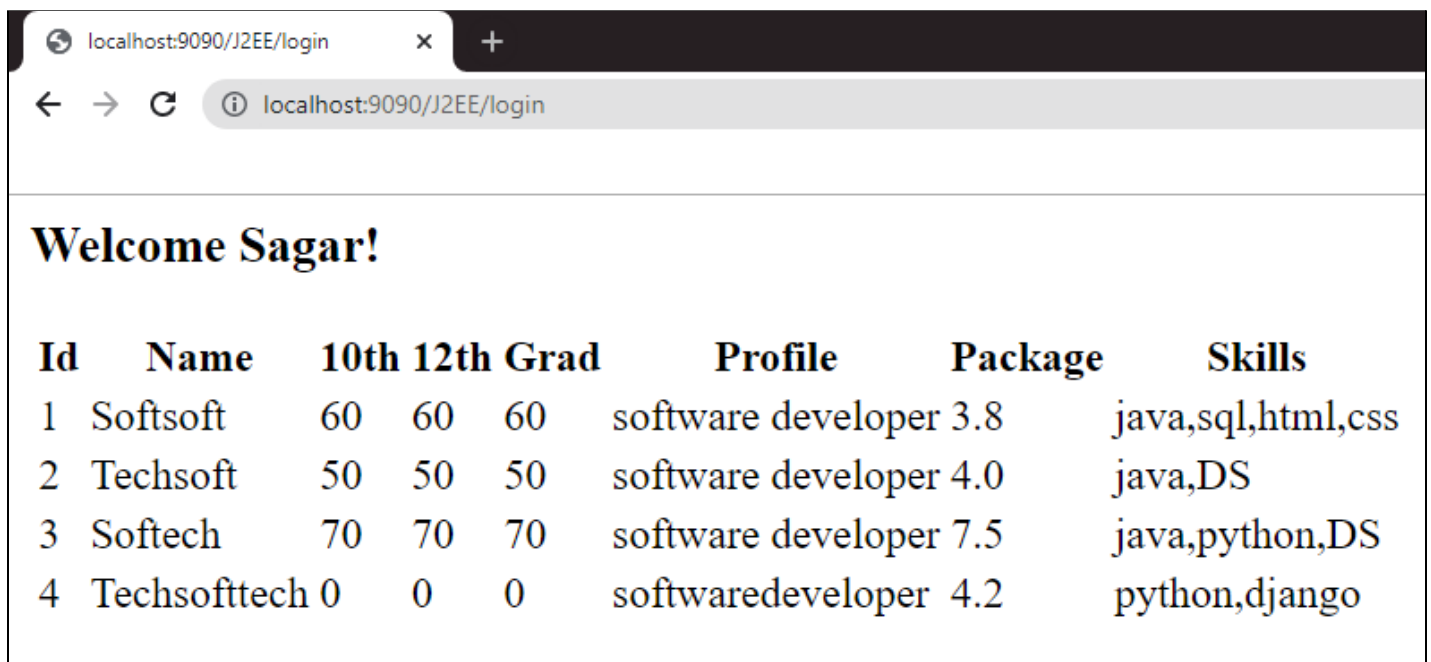
```

String name = res2.getString(2);
int ten = res2.getInt(3);
int tve = res2.getInt(4);
int grad = res2.getInt(5);
String profile = res2.getString(6);
float pac = res2.getFloat(7);
String skills = res2.getString(8);

writer.println("<tr>\r\n"
    + "        <td>" + id + "</td>\r\n"
    + "        <td>" + name + "</td>\r\n"
    + "        <td>" + ten + "</td>\r\n"
    + "        <td>" + tve + "</td>\r\n"
    + "        <td>" + grad + "</td>\r\n"
    + "        <td>" + profile + "</td>\r\n"
    + "        <td>" + pac + "</td>\r\n"
    + "        <td>" + skills + "</td>\r\n"
    + "    </tr>");
}
writer.println("</table>");
}
else {
    RequestDispatcher rd =
req.getRequestDispatcher("/invalidlogin.html");
    rd.forward(req, resp);
}

```

Output:



The screenshot shows a web browser window with the address bar displaying 'localhost:9090/J2EE/login'. The page content includes a welcome message 'Welcome Sagar!' and a table with 7 columns: Id, Name, 10th, 12th, Grad, Profile, Package, and Skills. The table contains 4 rows of data.

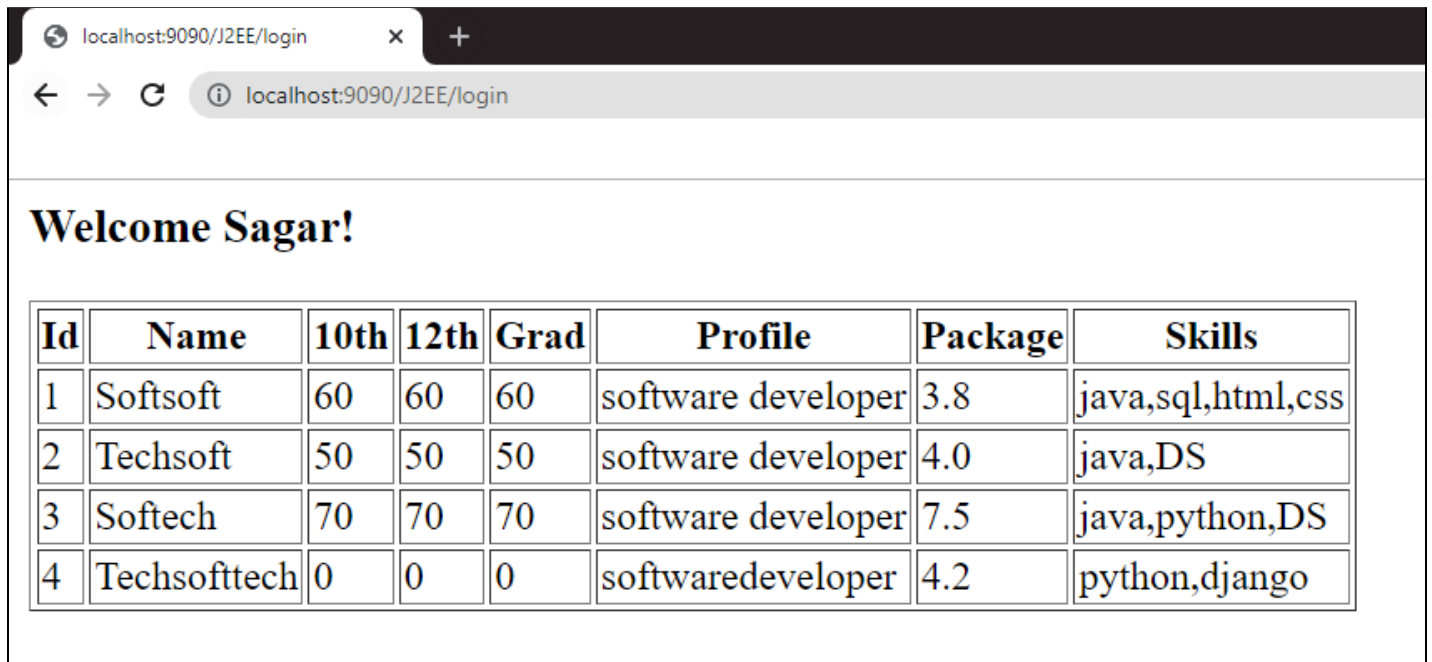
Id	Name	10th	12th	Grad	Profile	Package	Skills
1	Softsoft	60	60	60	software developer	3.8	java,sql,html,css
2	Techsoft	50	50	50	software developer	4.0	java,DS
3	Softech	70	70	70	software developer	7.5	java,python,DS
4	Techsofttech	0	0	0	softwaredeveloper	4.2	python,django

If you want to add border to the table we have to modify the code as shown

```
writer.println("<table border='1'>\r\n"
```

But if we do this we will get an error, so to resolve the error we can escape the meaning of "" by adding \"1\" or by enclosing 1 in single quotes or just typing border=1, as HTML is not a strongly typed language.

Output:



The screenshot shows a web browser window with the address bar displaying 'localhost:9090/J2EE/login'. The page content includes a bold heading 'Welcome Sagar!' followed by a table with 8 columns: Id, Name, 10th, 12th, Grad, Profile, Package, and Skills. The table contains 4 rows of data.

Id	Name	10th	12th	Grad	Profile	Package	Skills
1	Softsoft	60	60	60	software developer	3.8	java,sql,html,css
2	Techsoft	50	50	50	software developer	4.0	java,DS
3	Softech	70	70	70	software developer	7.5	java,python,DS
4	Techsofttech	0	0	0	softwaredeveloper	4.2	python,django