Laboratory Work

Subject: Java Technologies

Branch: B.Tech. (CE)

Semester: IV

Batch: A2

Student Roll No: CE030

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Lab-8

WelcomeServlet.java

```java
// WelcomeServlet.java
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class WelcomeServlet extends HttpServlet {
    public void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
>");
out.println("<html>");
out.println("<head>");
out.println("<title>Welcome Message</title>");
out.println("</head>");
out.println("<body>");
out.println("<h1>Welcome to the Web Application!</h1
out.println("</body>");
        out.println("</html>");
    }
}
```

web.xml

```xml
<!-- web.xml -->
<web-app>
   <servlet>
      <servlet-name>WelcomeServlet</servlet-name>
      <servlet-class>WelcomeServlet</servlet-class>
   </servlet>
   <servlet-mapping>
      <servlet-name>WelcomeServlet</servlet-name>
      <url-pattern>/welcome</url-pattern>
   </servlet-mapping>
</web-app>
```

index.jsp

```
<!-- index.jsp -->
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title>Lab-8</title>
</head>
<body>
    <h1>Lab-8</h1>
    <p>This is a simple JAVA web application.</p>
    <p><a href="welcome">Click here</a> to view the welcome message.</p>
</body>
</html>
```

localhost:8080/lab8_war_exploded/

Hello World!

[Click here](welcome) to view the welcome message.

Hello World!

Java Web Application - Login Module

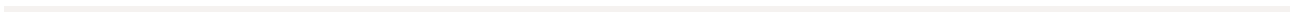## index.html

```
<%@ page contentType="text/html; charset=UTF-8" pageEncoding
="UTF-8" %>
<!-- index.html -->
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title>Login Page</title>
</head>
<body>
<!-- Input fields for username and password -->
<form action="ValidateServlet" method="post">
    <label for="username">Username:</label>
    <input type="text" id="username" name="username" required
>
    <input type="password" id="password" name="password" requ
ired>
    <input type="submit" value="Login">
</form>
</body>
</html>
<label for="password">Password:</label>
```

ValidateServlet.java

```java
package org.example.lab8;
import java.io.*;
import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.*;
import jakarta.servlet.annotation.*;
@WebServlet(name = "ValidateServlet", value = "/ValidateServlet")
public class ValidateServlet extends HttpServlet {
    private String message;
    public void init() {
        message = "Hello World!";
    }

    public void doPost(HttpServletRequest request, HttpServletResponse response) throws IOException, ServletException {
        response.setContentType("text/html");
        String username = request.getParameter("username");
        String password = request.getParameter("password");
        // Check if the username and password match the specified values
        if ("lakhman".equals(username) && "123".equals(password)) {
            // If matched, display a success message
            request.setAttribute("username",username);
            request.getRequestDispatcher("welcome.jsp").forward(request,response);
        } else {
            // If not matched, redirect back to the index.html page
            PrintWriter out = response.getWriter();
            out.println("<html><body>");
            out.println("<h1>Login UnSuccessful!</h1>");
            out.println("</body></html>");
            RequestDispatcher requestDispatcher=request.getRequestDispatcher("index.jsp");
            requestDispatcher.include(request,response);
}}
    public void destroy() {

}}
```

Welcome.jsp

```jsp
<%--
Created by IntelliJ IDEA.
User: lakhman
Date: 19/02/24
Time: 12:36 am
To change this template use File | Settings | File Template s.--%>
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<html>
<head>
    <title>Title</title>
</head>
<body> <h1>
    Welcome
</h1>
</body>
</html>
${username}
```

index.html

Username: lakhman   Password: •••   Login

Welcome lakhman

Username: [pamar] Password: [•••] [Login]

Login UnSuccessful!

Username: [ ] Password: [ ] [Login]