Eclipse : oxygen

Java : 1.8

Tomcat : 9.0.10

Servlet : 3.1.0

Login Filter

1. Create dynamic web project
2. Add server jar file
3. Create Admin.java servlet

package com.example;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class Admin extends HttpServlet{

public void doGet(HttpServletRequest req,HttpServletResponse resp) throws IOException{

handleRequest(req, resp);

}

private void handleRequest(HttpServletRequest req, HttpServletResponse resp) throws IOException{

resp.setContentType("text/html");

/\*\*\*\*\* Building & Printing The HTML Response Code \*\*\*\*\*/

PrintWriter out = resp.getWriter();

out.write("<html><body><div id='servletResponse' style='text-align: center;'>");

out.write("<h2>Java Sevlet Filter Example</h2>");

out.write("<p style='color: green; font-size: large;'>Welcome, Administrator!</p>");

out.write("</div></body></html>");

out.close();

}

}

4.create LoginFilter.java

package com.example;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.Filter;

import javax.servlet.FilterChain;

import javax.servlet.FilterConfig;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.ServletRequest;

import javax.servlet.ServletResponse;

public class LoginFilter implements Filter {

public void init(FilterConfig filterConfig) throws ServletException { }

public void doFilter(ServletRequest req, ServletResponse resp, FilterChain chainObj) throws IOException, ServletException {

RequestDispatcher rdObj = null;

PrintWriter out = resp.getWriter();

out.write("<html><body><div id='servletResponse' style='text-align: center;'>");

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

System.out.println("Password Is?= " + password);

if(password != null && password.equals("admin")) {

/\*\*\*\*\* Send Request To Next Resource \*\*\*\*\*/

chainObj.doFilter(req, resp);

} else {

out.print("<p id='errMsg' style='color: red; font-size: larger;'>Username Or Password Is Invalid. Please Try Again ....!</p>");

rdObj = req.getRequestDispatcher("/index.jsp");

rdObj.include(req, resp);

}

out.write("</div></body></html>");

out.close();

}

public void destroy() { }

}

5.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">

<display-name>Servlet Application Login Example</display-name>

<servlet>

<servlet-name>Admin</servlet-name>

<servlet-class>com.example.Admin</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>Admin</servlet-name>

<url-pattern>/servlet1</url-pattern>

</servlet-mapping>

<filter>

<filter-name>Login</filter-name>

<filter-class>com.example.LoginFilter</filter-class>

</filter>

<filter-mapping>

<filter-name>Login</filter-name>

<url-pattern>/servlet1</url-pattern>

</filter-mapping>

</web-app>

6.index.jsp , by default app picks jsp/html file whose name is index

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

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

<title>Java Sevlet Filter</title>

<style type="text/css">

.paddingBtm {

padding-bottom: 12px;

}

</style>

</head>

<body>

<center>

<h2>Java Sevlet Filter Example</h2>

<form id="loginForm" action="servlet1">

<div id="uDiv" class="paddingBtm">

Username: <input type="text" name="username" />

</div>

<div id="pDiv" class="paddingBtm">

Password: <input type="password" name="password" />

</div>

<div id="sDiv">

<input id="btn" type="submit" value="Login" />

</div>

</form>

</center>

</body>

</html>

g