**\*\*\*\*\*\*\*\*\*\*\*\*\*\*Steps\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

Set JBOSS\_HOME and JAVA\_HOME To jdk 8 and wildfly.

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*WildFly Change http port\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**\*\*\*\*\*C:\WildFly8.1.0\standalone\configuration\standalone.xml\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

Change a http port to 8083

<http://localhost:8083>

**\*\*\*\*\*\*\*\*\*\*\*\*\*Error\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

In case of error remove all war files from

C:\WildFly8.1.0\standalone\deployments and C:\WildFly8.1.0\standalone\tmp folder .

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*web.xml\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<?xml version="1.0" encoding="UTF-8"?>

<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://xmlns.jcp.org/xml/ns/javaee" xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app\_3\_1.xsd" id="WebApp\_ID" version="3.1">

<display-name>BasicServlet3Project</display-name>

<welcome-file-list>

<welcome-file>default.jsp</welcome-file>

</welcome-file-list>

</web-app>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*index.html\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Insert title here</title>

</head>

<body>

<form action="BasicServlet" method="get">

<input type="submit"><br/>

<a href="ServletConfiguration">Call Servlet Config Servlet</a><br/>

<a href="ServerSnoop">Call Server Snoop</a><br/>

</form>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*HelloWorls.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package controller;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/BasicServlet")

public class HelloWorld extends HttpServlet

{

protected void doGet(HttpServletRequest request,

HttpServletResponse response) throws ServletException, IOException

{

response.setContentType("text/html");

PrintWriter out = response.getWriter();

out.println("<HTML>");

out.println("<HEAD><TITLE>Hello World</TITLE></HEAD>");

out.println("<BODY>");

out.println("<BIG>Hello World</BIG>");

out.println("</BODY></HTML>");

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* MultipleURLServlet.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package controller;

import java.io.IOException;

import javax.servlet.ServletException;

import javax.servlet.ServletOutputStream;

import javax.servlet.annotation.WebInitParam;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\* A servlet can have multiple URL patterns. This demo will show that

\* MultipleURLServlet can be invoked by multiple URL patterns i.e either by

\* /MultipleURLServlet or /Multiple or /Many.

\*/

@WebServlet(name = "MultipleURLServlet", urlPatterns = { "/MultipleURLServlet",

"/Multiple", "/Many" })

public class MultipleURLServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request,

HttpServletResponse response) throws ServletException, IOException {

// Byte stream can also be used to write output from servlets

doPost(request,response);

}

protected void doPost(HttpServletRequest request,

HttpServletResponse response) throws ServletException, IOException {

ServletOutputStream os = response.getOutputStream();

os.println("Welcome to Servlets<BR>");

os.println("Where I could be invoked with multiple URL patterns<BR>");

os.println("Test me out with same<BR>");

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*userInput.html\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>User Page</title>

</head>

<body style="text-align: center">

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

<table border="1" style="text-align: center">

<tr>

<td>User name: </td>

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

</tr>

<tr>

<td>Password: </td>

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

</tr>

<tr>

<td>Select Gender:</td>

<td><input type="radio" name="gender" value="m">Male

<input type="radio" name="gender" value="f">Female

</td>

</tr>

<tr>

<td>Education Qualification:</td>

<td><select name="qualification">

<option value="mca">MCA</option>

<option value="mcs">MCS</option>

<option value="btech">B.Tech</option>

<option value="be">BE</option>

</select>

</td>

</tr>

<tr>

<td>ID Proofs to be submitted:</td>

<td><input type="checkbox" name="proofs" value="pan"/>Pan card

<input type="checkbox" name="proofs" value="aadhar"/>Adhar card

<input type="checkbox" name="proofs" value="voter"/>Voter card

</td>

</tr>

<tr>

<td>Hobbies:</td>

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

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

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

</td>

</tr>

<tr>

<td></td>

<td><input type="submit" value="Submit"/>

<input type="reset" value="Clear"/>

</td>

</tr>

</table>

</form>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*ServerSnoop.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.ch3;

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.annotation.WebServlet;

@WebServlet("/ServerSnoop")

public class ServerSnoop extends GenericServlet {

public void service(ServletRequest req, ServletResponse res)

throws ServletException, IOException {

res.setContentType("text/plain");

PrintWriter out = res.getWriter();

out.println("req.getServerName(): " + req.getServerName());

out.println("req.getServerPort(): " + req.getServerPort());

out.println("getServletContext().getServerInfo(): "

+ getServletContext().getServerInfo());

out.println("getServerInfo() name: "

+ getServerInfoName(getServletContext().getServerInfo()));

out.println("getServletContext().getAttribute(\"attribute\"): "

+ getServletContext().getAttribute("attribute"));

}

private String getServerInfoName(String serverInfo) {

int slash = serverInfo.indexOf('/');

if (slash == -1)

return serverInfo;

else

return serverInfo.substring(0, slash);

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ServletConfiguration.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.ch3;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.Enumeration;

import javax.servlet.GenericServlet;

import javax.servlet.ServletConfig;

import javax.servlet.ServletContext;

import javax.servlet.ServletException;

import javax.servlet.ServletRequest;

import javax.servlet.ServletResponse;

import javax.servlet.annotation.WebInitParam;

import javax.servlet.annotation.WebServlet;

@WebServlet(name = "ServletConfiguration", urlPatterns = { "/ServletConfiguration" }, initParams = {

@WebInitParam(name = "name", value = "My Servlet"),

@WebInitParam(name = "mail", value = "info@test.com") })

public class ServletConfiguration extends GenericServlet {

public void init(ServletConfig config) throws ServletException {

super.init(config);

// Accessing inital parameter : name by using the API method -

// getInitParameter("name")

String value = config.getInitParameter("name");

System.out.println("Value is:::" + value);

}

public void service(ServletRequest request, ServletResponse response)

throws ServletException, IOException {

PrintWriter pw = response.getWriter();

// Access ServletConfig and ServletContext

ServletConfig config = getServletConfig();

ServletContext context = getServletContext();

// Multiple initial parameters could be accessed via API method:

// getInitParameterNames();

Enumeration enums = config.getInitParameterNames();

while (enums.hasMoreElements()) {

String param = (String) enums.nextElement();

pw.println(param + "Value is::" + config.getInitParameter(param)

+ "<br>");

}

// Access context param set in the listener

String companyName = context.getInitParameter("company");

pw.println("Company Name is :::" + companyName);

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*\* TestServletContextListener.java\*\*\*\*\*\*\*\*\*\*\***

package com.igate.ch3;

import javax.servlet.ServletContext;

import javax.servlet.ServletContextEvent;

import javax.servlet.ServletContextListener;

import javax.servlet.annotation.WebListener;

@WebListener

public class TestServletContextListener implements ServletContextListener {

public void contextDestroyed(ServletContextEvent sc) {

}

public void contextInitialized(ServletContextEvent sc) {

System.out.println("Context Listener invoked........");

ServletContext context = sc.getServletContext();

// Setting contextual parameters that would be common to all servlets

context.setInitParameter("company", "IGATE GLOBAL SOLUTIONS");

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Next\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**\*\*\*\*\*\*\*\*\*\*\*\*\*userInput.html\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>User Page</title>

</head>

<body style="text-align: center">

<!-- <form action="MultipleURLServlet" method="post"> -->

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

<table border="1" style="text-align: center">

<tr>

<td>User name: </td>

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

</tr>

<tr>

<td>Password: </td>

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

</tr>

<tr>

<td>Select Gender:</td>

<td><input type="radio" name="gender" value="m">Male

<input type="radio" name="gender" value="f">Female

</td>

</tr>

<tr>

<td>Education Qualification:</td>

<td><select name="qualification">

<option value="mca">MCA</option>

<option value="mcs">MCS</option>

<option value="btech">B.Tech</option>

<option value="be">BE</option>

</select>

</td>

</tr>

<tr>

<td>ID Proofs to be submitted:</td>

<td><input type="checkbox" name="proofs" value="pan"/>Pan card

<input type="checkbox" name="proofs" value="aadhar"/>Adhar card

<input type="checkbox" name="proofs" value="voter"/>Voter card

</td>

</tr>

<tr>

<td>Hobbies:</td>

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

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

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

</td>

</tr>

<tr>

<td></td>

<td><input type="submit" value="Submit"/>

<input type="reset" value="Clear"/>

</td>

</tr>

</table>

</form>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*ProcessRequest.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.ch4;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.Enumeration;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet(urlPatterns={"/Process"})

public class ProcessRequest extends HttpServlet

{

protected void doGet(HttpServletRequest request,

HttpServletResponse response) throws ServletException, IOException

{

doPost(request,response);

}

protected void doPost(HttpServletRequest request,

HttpServletResponse response)throws ServletException, IOException

{

PrintWriter pw = response.getWriter();

// Returning values of named parameters. This data is sent from client

// to server, thus it would be reflected using the request object

String username = request.getParameter("uname");

String password = request.getParameter("pwd");

String gender = request.getParameter("gender");

String qualification = request.getParameter("qualification");

pw.println("Username>>" + username + "<br/>Password>>" + password

+ "<br/>Gender>>" + gender + "<br/>Qualification>>" + qualification);

// If dealing with multiple values like in check boxes or drop downs or textboxes

// having same name, different API methods needs to be used to retrieve

// the values

String[] proofs = request.getParameterValues("proofs");

// use for each loop to print out values selected in check box

pw.println("<BR>Values checked for proofs submitted are::<BR>");

if(proofs != null){

for (String proof : proofs) {

pw.println(proof + "<br>");

}

}

// Multiple hobbies could be entered , we have given 3 text boxes with same name.

String[] hobbies = request.getParameterValues(("hobbies"));

pw.println("<br/>Values entered for hobbies are::<BR>");

if(hobbies != null){

for (String hobby : hobbies) {

pw.println(hobby + "<br>");

}

}

// Query string is the parameters appended in the URL. Query parameters

// would be exposed if we are using the GET Http method. If we use POST

// Http method then query parameters would be appended in the body of

// the request.

String queryString = request.getQueryString();

pw.println("<br/>Query String:::" + queryString + "<br>");

// RequestURI is the URL from the context root. It can be used to

// identify different types of requests.

String requestURI = request.getRequestURI();

pw.println("<br/>Request URI:::" + requestURI + "<br>");

// ParameterNames returns a list of HTML parameter names

Enumeration<String> inputParameters = request.getParameterNames();

while (inputParameters.hasMoreElements())

{

String param = inputParameters.nextElement();

pw.println(param);

}

String info = request.getPathInfo();

pw.println("<br/>Info is >>>" + info);

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*\* Output after submitting the data\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

Username>>Vaishali  
Password>>Srivastava  
Gender>>f  
Qualification>>be   
Values checked for proofs submitted are::  
  
Values entered for hobbies are::  
sing  
danse  
  
  
Query String:::null  
  
Request URI:::/BasicServlet3Project/Process  
qualification uname gender hobbies pwd   
Info is >>>null

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Next\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**\*\*\*\*\*\*\*\*\*\*\*\*\*ContextListener.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.listeners;

import javax.servlet.ServletContext;

import javax.servlet.ServletContextEvent;

import javax.servlet.ServletContextListener;

import javax.servlet.annotation.WebListener;

/\*\*

\* Application Lifecycle Listener implementation class ContextListener

\* \*/

@WebListener

public class ContextListener implements ServletContextListener {

public void contextDestroyed(ServletContextEvent sc) {

// TODO Auto-generated method stub

}

/\*\*

\* @see ServletContextListener#contextInitialized(ServletContextEvent)

\*/

public void contextInitialized(ServletContextEvent sc) {

ServletContext context= sc.getServletContext();

context.setInitParameter("username", "admin");

context.setInitParameter("password", "igate123");

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*userAuth.html\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>User credentials</title>

</head>

<body bgcolor="lightblue" style="text-align: center">

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

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

Enter Password: <input type="password" name="pwd"/><BR>

<input type="submit" value="Verify Credentials"/>

</form>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*ServletResponseCode.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.ch4;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletContext;

import javax.servlet.ServletException;

import javax.servlet.ServletResponse;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/ServletResponseCode")

public class ServletResponseCode extends HttpServlet {

protected void doPost(HttpServletRequest request,

HttpServletResponse response) throws ServletException, IOException {

String name = request.getParameter("username");

String pwd = request.getParameter("pwd");

ServletContext context = getServletContext();

PrintWriter pw = response.getWriter();

if (context.getInitParameter("username").equals(name)

&& context.getInitParameter("password").equals(pwd)) {

pw.println("Authorized, you are welcome");

} else {

// Make use of HttpServletResponse interface to get status codes,

// that represent HTTP specific response codes

response.sendError(HttpServletResponse.SC\_FORBIDDEN,

"You are Forbidden, as credentials do not match");

}

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Output\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

In case if valid User 🡪 Authorized, you are welcome

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Next\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**\*\*\*\*\*\*\*\*\***\*\*\*\*\*\*\*\*\*\*\*\*\*\***\*\*\*pathInfo.html\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<!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=ISO-8859-1">

<title>Insert title here</title>

</head>

<body bgcolor="lightblue" style="text-align: center">

<form action="abc/PathInfoServlet" method="get">

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

<input type="submit" value="Submit Details"/>

</form>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*PathInfoServlet.java\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.ch4;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/abc/\*")

public class PathInfoServlet extends HttpServlet {

protected void doGet(HttpServletRequest request,

HttpServletResponse response) throws ServletException, IOException {

PrintWriter pw = response.getWriter();

String path = request.getPathInfo();

String pathTranslated = request.getPathTranslated();

pw.println("Path>>" + path + "<BR>");

pw.println("Path Translated>>" + pathTranslated);

String username = request.getParameter("username");

pw.println("Username>>" + username + "<BR>"); }}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*output\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

Path>>/PathInfoServlet  
Path Translated>>null   
Username>>vvv

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Next\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**\*\*\*\*\*\*\*\*\*\*\*\*SiteSelector.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.ch4;

import java.io.\*;

import java.util.\*;

import javax.servlet.\*;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.\*;

@WebServlet("/SiteSelector")

public class SiteSelector extends HttpServlet {

Vector sites = new Vector();

Random random = new Random();

public void init(ServletConfig config) throws ServletException {

super.init(config);

sites.addElement("http://www.google.com");

sites.addElement("http://docs.oracle.com/javaee/6/tutorial/doc/bnafd.html");

sites.addElement("http://www.oracle.com/technetwork/java/javase/8-whats-new-2157071.html");

sites.addElement("http://en.wikipedia.org/wiki/Web\_container");

}

public void doGet(HttpServletRequest req, HttpServletResponse res)

throws ServletException, IOException {

res.setContentType("text/html");

int siteIndex = Math.abs(random.nextInt()) % sites.size();

String site = (String) sites.elementAt(siteIndex);

// The first line sets the status code to indicate a redirection is to

// take place, while the second line gives the new location.

// res.setStatus(res.SC\_MOVED\_TEMPORARILY);

// res.setHeader("Location", site);

// These two lines can be simplified to one using the sendRedirect( )

// convenience method

res.sendRedirect(site);

}

}

\*output-Type <http://docs.oracle.com/javaee/6/tutorial/doc/bnafd.html> in address bar\*\*\*\*\*\*\*

**\*\*\*\*\*\*\*\*\*\*\*\***\*\*\*\*\*\*\*\*\*\*\*\*\*\***\*\*log4j.properties\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

# Define the root logger with appender file

log = /usr/home/log4j

log4j.rootLogger = DEBUG, FILE

# Define the file appender

log4j.appender.FILE=org.apache.log4j.FileAppender

log4j.appender.FILE.File=${log}/log.out

# Define the layout for file appender

log4j.appender.FILE.layout=org.apache.log4j.PatternLayout

log4j.appender.FILE.layout.conversionPattern=%m%n

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*ServletLogger.java\*\*\*\*\*\*\*\*\*\***\*\*\*\*\*\*\*\*\*\*\*\*\*\***\*\*\***

package com.igate.ch4;

import java.io.IOException;

import javax.servlet.ServletConfig;

import javax.servlet.ServletContext;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebInitParam;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import org.apache.log4j.Logger;

import org.apache.log4j.PropertyConfigurator;

/\*\*

\* Servlet implementation class ServletLogger

\*/

@WebServlet(name = "ServletLogger", urlPatterns = { "/ServletLogger" },

initParams = { @WebInitParam(name = "propFileName", value = "logger.properties") })

public class ServletLogger extends HttpServlet {

private Logger log = null;

public void init() {

ServletConfig cg = getServletConfig();

ServletContext ctx = getServletContext();

String filename = cg.getInitParameter("propFileName");

String path = ctx.getRealPath("/WEB-INF/" + filename);

PropertyConfigurator.configure(path);

log = Logger.getLogger(ServletLogger.class);

log.info("ServletLogger started.");

}

protected void doGet(HttpServletRequest request,

HttpServletResponse response) throws ServletException, IOException {

// display a DEBUG level message

log.debug("Sending a DEBUG message");

// display an INFO level message

log.info("Sending an INFO message");

// better display something

response.setContentType("text/html");

java.io.PrintWriter out = response.getWriter();

out.println("<html><head><title>Servlet logging</title></head><body>");

out.println("<h2>Hello from ServletLogger</h2>");

out.println("Your logger name is: " + log.getName() + "<br>");

out.println("</body></html>");

out.close();

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Output\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Hello from ServletLogger**

Your logger name is: com.igate.ch4.ServletLogger

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* LoggerServlet.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.ch4;

import java.io.BufferedReader;

import java.io.FileReader;

import java.io.IOException;

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*HeaderSnoop.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**\*\*\*\*\*\*\*\*\*\*\*\***\*\*\*\*\*\*\*\*\*\*\*\*\*\***\*\*Output\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<http://localhost:8083/BasicServlet3Project/HeaderSnoop>

Request Headers:

Accept: image/jpeg, application/x-ms-application, image/gif, application/xaml+xml, image/pjpeg, application/x-ms-xbap, application/vnd.ms-excel, application/vnd.ms-powerpoint, application/msword, \*/\*

Cache-Control: no-cache

Connection: Keep-Alive

User-Agent: Mozilla/5.0 (Windows NT 6.1; Trident/7.0; rv:11.0) like Gecko

Host: localhost:8083

Accept-Language: en-US

Accept-Encoding: gzip, deflate

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* HeaderSnoop.java\*\*\*\*\*\*\*\*\*\*\***\*\*\*\*\*\*\*\*\*\*\*\*\*\*

package com.igate.ch4;

import java.io.\*;

import java.util.\*;

import javax.servlet.\*;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.\*;

@WebServlet("/HeaderSnoop")

public class HeaderSnoop extends HttpServlet {

public void doGet(HttpServletRequest req, HttpServletResponse res)

throws ServletException, IOException {

res.setContentType("text/plain");

PrintWriter out = res.getWriter();

out.println("Request Headers:");

out.println();

Enumeration headernames = req.getHeaderNames();

while (headernames.hasMoreElements()) {

String name = (String) headernames.nextElement();

String value = req.getHeader(name);

if (value != null) {

out.println(name + ": " + value);

}

}

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Next\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*ClientPull.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Output\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<http://localhost:8083/BasicServlet3Project/ClientPull>

package com.igate.ch4;

import java.io.\*;

import java.util.\*;

import javax.servlet.\*;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.\*;

@WebServlet("/ClientPull")

public class ClientPull extends HttpServlet {

public void doGet(HttpServletRequest req, HttpServletResponse res)

throws ServletException, IOException {

res.setContentType("text/plain");

PrintWriter out = res.getWriter();

res.setHeader("Refresh", "1");

out.println(new Date().toString());

}

}

import javax.servlet.ServletConfig;

import javax.servlet.ServletContext;

import javax.servlet.ServletException;

import javax.servlet.ServletOutputStream;

import javax.servlet.annotation.WebInitParam;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet(name = "LoggerServlet", urlPatterns = { "/LoggerServlet" }, initParams = {

@WebInitParam(name = "fileName", value = "sample.txt")})

public class LoggerServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request,

HttpServletResponse response) throws ServletException, IOException {

ServletOutputStream out = response.getOutputStream();

// Code to read data from sample.txt file

ServletConfig cg = getServletConfig();

ServletContext ctx = getServletContext();

String filename = cg.getInitParameter("fileName");

String path = ctx.getRealPath("/WEB-INF/" + filename);

try (FileReader fr = new FileReader(path);

BufferedReader br = new BufferedReader(fr);) {

String contents;

out.println("Printing names on browser as well as logging on console with Servlet Context");

while ((contents = br.readLine()) != null) {

out.println(contents + "<BR>");

log("Servlet context logging the users>>>" + contents);

}

} catch (IOException e) {

log("could not find file: " + e.getMessage());

response.sendError(HttpServletResponse.SC\_NOT\_FOUND);

}

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*output\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<http://localhost:8083/BasicServlet3Project/LoggerServlet>

Printing names on browser as well as logging on console with Servlet Context Emma  
Sebastain  
Harry  
Alex  
Alexia

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*ClientPullMove.java\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<http://localhost:8083/BasicServlet3Project/ClientPullMove>

**\*\*\*\*\*\*\*\*\*\*\*\*output\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

The requested URI has been moved to a different host.  
Its new location is http://localhost:9090/RequestResponseDemoApp/ClientPull  
Your browser will take you there in 5 seconds.

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*DBServlet.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

Keep all oracle jar file sin servler lib folder

package com.igate.ch4;

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\* Servlet implementation class DBServlet

\*/

@WebServlet("/DBServlet")

public class DBServlet extends HttpServlet {

Connection con;

String url = "jdbc:oracle:thin:@127.0.0.1:1521:XE";

public void init() throws ServletException {

try {

// URL Pattern, username, password can be obtained from Servlet init parameters also

Class.forName("oracle.jdbc.driver.OracleDriver");

con = DriverManager.getConnection(url,"system","root");

} catch (Exception e) {

System.out.println("Database connect failed (init)");

System.out.println(e.toString());

return;

}

}

protected void doGet(HttpServletRequest request,

HttpServletResponse response) throws ServletException, IOException {

PrintWriter pw = response.getWriter();

try {

Statement st = con.createStatement();

ResultSet rs = st.executeQuery("select \* from eee1");

while(rs.next()){

pw.println(rs.getInt("empno") + "<br>");

pw.println(rs.getString("ename") + "<br>");

pw.println(rs.getFloat("sal") + "<br>");

}

con.close();

} catch (SQLException e1) {

e1.printStackTrace();

}

}}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Use Of Data Source\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

C:\WildFly8.1.0\bin>add-user.bat

User name: vaishalidb

Password: vaishalidb

This user vaishalidb and vaishalidb will get added under D:\wildfly-8.1.0.Final\standalone\configuration\mgmt-users.properties

Start the server and type <http://localhost:9990/console/App.html#home>

Username: vaishalidb

Password : vaishalidb

These Datasource mappings would be reflected in standalone.xml file (D:\wildfly-8.1.0.Final\standalone\configuration\standalone.xml). Check Datasource tag in this file.

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*dbindex.html\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Insert title here</title>

</head>

<body>

<a href="ConnectionPoolWildFly"/>ConnectionPoolWildFly</a><br>

<a href="ResourceConnectionPooling"/>ResourceConnectionPooling</a><br>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ConnectionPoolWildFly.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.ch7.controller;

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import javax.naming.InitialContext;

import javax.naming.NamingException;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.sql.DataSource;

/\*\*

\* Servlet implementation class ConnectionPoolWildFly

\*/

@WebServlet("/ConnectionPoolWildFly")

public class ConnectionPoolWildFly extends HttpServlet {

protected void doGet(HttpServletRequest request,

HttpServletResponse response) throws ServletException, IOException {

doPost(request, response);

}

protected void doPost(HttpServletRequest request,

HttpServletResponse response) throws ServletException, IOException {

PrintWriter pw = response.getWriter();

try {

InitialContext ic = new InitialContext();

DataSource ds = (DataSource) ic.lookup("java:/jdbc/OracleDS");

Connection con = ds.getConnection();

Statement st = con.createStatement();

ResultSet rs = st.executeQuery("select \* from eee1");

while (rs.next()) {

pw.println(rs.getInt("empno") + "<br>");

pw.println(rs.getString("eNAME") + "<br>");

pw.println(rs.getFloat("SAL") + "<br>");

pw.println(".......................................");

}

} catch (NamingException | SQLException e) {

log("Error is::::::::::" + e.getMessage());

}

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ResourceConnectionPooling.java\*\*\*\*\*\*\*\*\*\*\***

package com.igate.ch7.controller;

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import javax.annotation.Resource;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.sql.DataSource;

/\*\*

\* Servlet implementation class ResourceConnectionPooling

\*/

@WebServlet("/ResourceConnectionPooling")

public class ResourceConnectionPooling extends HttpServlet {

@Resource(lookup="java:/jdbc/OracleDS")

DataSource ds;

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

doPost(request, response);

}

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

PrintWriter pw = response.getWriter();

try {

Connection con = ds.getConnection();

Statement st = con.createStatement();

ResultSet rs = st.executeQuery("select \* from eee1");

while (rs.next()) {

pw.println(rs.getInt("empno") + "<br>");

pw.println(rs.getString("eNAME") + "<br>");

pw.println(rs.getFloat("sal") + "<br>");

}

rs = st.executeQuery("select count(\*) from eee1");

if(rs.next()){

pw.println("Num of Records:::" + rs.getInt(1));

}

} catch (SQLException e1) {

log("Error is::::::::::" + e1.getMessage());

}

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*NEXT\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*ServletFilters\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*login.html\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Login Page</title>

</head>

<body style="text-align: *center*" bgcolor=*"khaki"*>

<form action=*"HelloServlet"*>

User name: <input type=*"text"* name=*"name"*/><BR>

Password: <input type=*"password"* name=*"pwd"*/><BR>

<input type=*"submit"* value=*"Verify"*/>

</form>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*HelloServlet.java\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.ch10.controller;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/HelloServlet")

public class HelloServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

doPost(request,response);

}

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

PrintWriter pw = response.getWriter();

pw.println("You have reached here after accessing Filters");

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*LocalServlet.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.ch10.controller;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/LocaleServlet")

public class LocaleServlet extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

PrintWriter pw = response.getWriter();

pw.println("Reached here after , displaying locale....");

}

**}**

**\*\*\*\*\*\*\*\*\*\*\*\*AutoFilter.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.ch10.filters;

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;

import javax.servlet.annotation.WebFilter;

import javax.servlet.annotation.WebInitParam;

@WebFilter(filterName = "AuthFilter", urlPatterns = { "/HelloServlet" }, initParams = {

@WebInitParam(name = "username", value = "igate"),

@WebInitParam(name = "password", value = "igate123") })

public class AuthFilter implements Filter {

String username, password;

/\*

\* Here the annotation @WebInitParam is used with name and value pair

\* specifying username and password used for authentication. These

\* parameters could be retrieved in init-method of filter. Observe that URL

\* Pattern attribute is mapped to HelloServlet, that means before request

\* goes to HelloServlet it would pass through AuthFilter

\*/

public void destroy() { // TODO Auto-generated method stub }

public void doFilter(ServletRequest request, ServletResponse response,

FilterChain chain) throws IOException, ServletException {

PrintWriter pw = response.getWriter();

// These credentials obtained from login.html

String name = request.getParameter("name");

String pwd = request.getParameter("pwd");

if (name.equals(username) && pwd.equals(password)) {

chain.doFilter(request, response);

} else {

pw.println("Invalid usser credentials, cannot enter inside::: Invalid user name given is:::"

+ name);

}

}

public void init(FilterConfig fc) throws ServletException {

username = fc.getInitParameter("username");

password = fc.getInitParameter("password");

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*LocalFilter.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.ch10.filters;

import java.io.FileInputStream;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.Locale;

import java.util.Properties;

import java.util.ResourceBundle;

import javax.servlet.Filter;

import javax.servlet.FilterChain;

import javax.servlet.FilterConfig;

import javax.servlet.ServletContext;

import javax.servlet.ServletException;

import javax.servlet.ServletRequest;

import javax.servlet.ServletResponse;

import javax.servlet.annotation.WebFilter;

import javax.servlet.annotation.WebInitParam;

@WebFilter(filterName = "LocaleFilter", urlPatterns = { "/LocaleServlet" })

public class LocaleFilter implements Filter {

ServletContext ctx;

public void destroy() { }

public void doFilter(ServletRequest request, ServletResponse response,

FilterChain chain) throws IOException, ServletException {

FileInputStream fis = null;

Properties properties = new Properties();

Locale locale = request.getLocale();

String language = locale.getLanguage();

String message;

PrintWriter out = response.getWriter();

String filename = "message\_" + language + ".properties";

String path = ctx.getRealPath("/WEB-INF/" + filename);

try {

fis = new FileInputStream(path);

properties.load(fis);

message = properties.getProperty("welcome.message");

out.println(message);

chain.doFilter(request, response);

} catch (IOException e1) {

System.out.println(e1.getMessage());

}

}

public void init(FilterConfig fg) throws ServletException {

ctx = fg.getServletContext();

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*\*LogFilter.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.ch10.filters;

import java.io.IOException;

import java.util.Date;

import javax.servlet.Filter;

import javax.servlet.FilterChain;

import javax.servlet.FilterConfig;

import javax.servlet.ServletException;

import javax.servlet.ServletRequest;

import javax.servlet.ServletResponse;

import javax.servlet.annotation.WebFilter;

/\*

\* This filter will now execute for all the URL patterns coming from web

\* resources As we are now implementing Filter <I> all methods of interface need

\* to be implemented

\*/

@WebFilter(filterName = "TimeFilter", urlPatterns = { "/\*" })

public class LogFilter implements Filter {

public void destroy() {

// TODO Auto-generated method stub

}

public void doFilter(ServletRequest request, ServletResponse response,

FilterChain chain) throws IOException, ServletException {

String ipAddress = request.getRemoteAddr();

//Log the IP address and current timestamp.

System.out.println("IP "+ipAddress + ", Time "+ new

Date().toString());

chain.doFilter(request, response);

}

public void init(FilterConfig fConfig) throws ServletException {

}}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*message\_de.properties\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

welcome.message=hallo

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*message\_en.properties\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

welcome.message=Hello and welcome

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*message\_fr.properties\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

welcome.message=bonjour

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Jsp2.2 Features\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*web.xml\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<?xml version="1.0" encoding="UTF-8"?>

<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://xmlns.jcp.org/xml/ns/javaee" xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app\_3\_1.xsd" id="WebApp\_ID" version="3.1">

<display-name>Lesson6-JSP\_Config</display-name>

<welcome-file-list>

<welcome-file>index.jsp</welcome-file>

</welcome-file-list>

<jsp-config>

<jsp-property-group>

<url-pattern>/views/\*</url-pattern>

<include-prelude>/parts/header.jsp</include-prelude>

<include-coda>/parts/footer.jsp</include-coda>

</jsp-property-group>

<jsp-property-group>

<url-pattern>/others/checkEL.jsp</url-pattern>

<el-ignored>true</el-ignored>

</jsp-property-group>

<jsp-property-group>

<url-pattern>/others/checkScripting.jsp</url-pattern>

<scripting-invalid>true</scripting-invalid>

</jsp-property-group>

</jsp-config>

</web-app>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*index.jsp\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<!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=ISO-8859-1">

<title>Insert title here</title>

</head>

<body>

<h1>Illustration of jsp property group</h1>

<a href="views/contents.jsp">Demo for header and footer</a><br/>

<a href="others/checkEL.jsp">Demo for EL ignored tag</a><br/>

<a href="others/checkScripting.jsp">Demo for Scripting invalid tag

It will give error if scripting-invalid tag is having true value</a>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*content.jsp\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<!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=ISO-8859-1">

<title>Insert title here</title>

</head>

<body>

<h3>Header and Footer are included to the current page

by include-prelude and include-coda tags in jsp property group</h3>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*header.jsp\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<!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=ISO-8859-1">

<title>Insert title here</title>

</head>

<body>

<h1>Company Web Page</h1>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*footer.jsp\*\*\*\*\*\*\*\*\*\*\*\*\***

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<!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=ISO-8859-1">

<title>Insert title here</title>

</head>

<body>

<h2>Copyright to University</h2>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*checkEL.jsp\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<!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=ISO-8859-1">

<title>Insert title here</title>

</head>

<body>

Hello ${"HelloEL"}

<br>

EL expressions are not evaluated if EL-ignored tag contains true value

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*checkScripting.jsp\*\*\*\*\*\*\*\*\*\*\*\***

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<!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=ISO-8859-1">

<title>Insert title here</title>

</head>

<body>

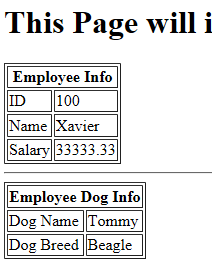
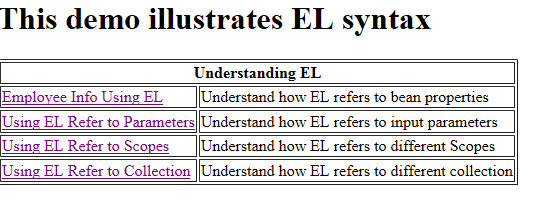
Hello Scripting !!

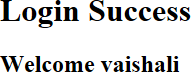
<%="HelloScripting"%>

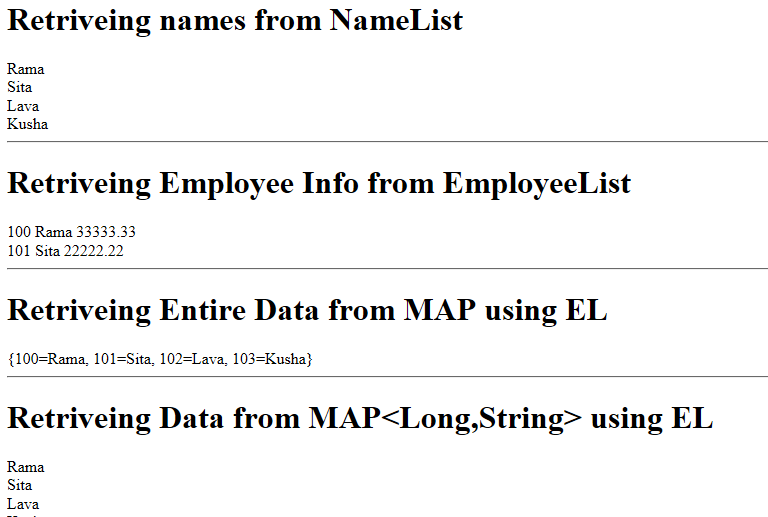
</body>

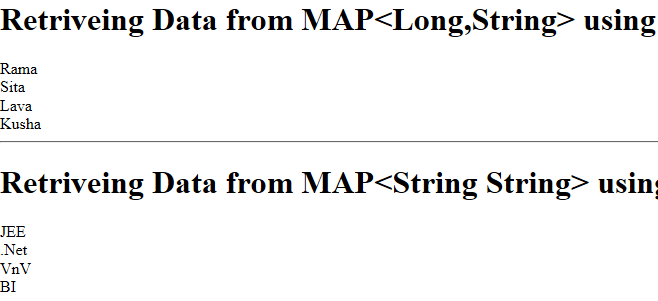
</html>

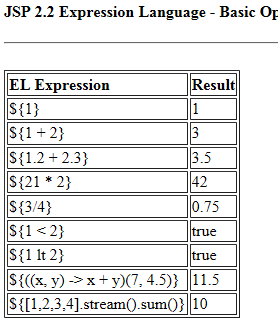
**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*EL\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

****

****

****

****

****

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*basicarithmetic.jsp\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<!DOCTYPE html>

<html>

<head>

<title>JSP 2.2 Expression Language - Basic Operators</title>

</head>

<%@page import=*"java.util.stream.\*"*%>

<body>

<h4>JSP 2.2 Expression Language - Basic Operators</h4>

<hr>

<br>

<table border=*"1"*>

<thead>

<tr>

<td><b>EL Expression</b></td>

<td><b>Result</b></td>

</tr>

</thead>

<tr>

<td>\${1}</td>

<td>${1}</td>

</tr>

<tr>

<td>\${1 + 2}</td>

<td>${1 + 2}</td>

</tr>

<tr>

<td>\${1.2 + 2.3}</td>

<td>${1.2 + 2.3}</td>

</tr>

<tr>

<td>\${21 \* 2}</td>

<td>${21 \* 2}</td>

</tr>

<tr>

<td>\${3/4}</td>

<td>${3/4}</td>

</tr>

<tr>

<td>\${1 &lt; 2}</td>

<td>${1 < 2}</td>

</tr>

<tr>

<td>\${1 lt 2}</td>

<td>${1 **lt** 2}</td>

</tr>

<tr>

<td>\${((x, y) -> x + y)(7, 4.5)}</td>

<td>${((x, y) -> x + y)(7, 4.5)}</td>

</tr>

<tr>

<td>\${[1,2,3,4].stream().sum()}</td>

<td>${[1,2,3,4].stream().sum()}</td>

</tr>

</table>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*ControllerController.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.controller;

import java.io.IOException;

import java.util.ArrayList;

import java.util.HashMap;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import com.igate.dto.Employee;

public class CollectionController extends HttpServlet {

private static final long serialVersionUID = 1L;

public CollectionController() { super(); }

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

ArrayList<String> nameList=new ArrayList<String>();

nameList.add("Rama");

nameList.add("Sita");

nameList.add("Lava");

nameList.add("Kusha");

ArrayList<Employee> employeeList=new ArrayList<Employee>();

Employee e1=new Employee(100,"Rama",33333.33);

Employee e2=new Employee(101,"Sita",22222.22);

Employee e3=new Employee(102,"Lava",22222.22);

Employee e4=new Employee(103,"Kusha",22222.22);

employeeList.add(e1);

employeeList.add(e2);

employeeList.add(e3);

employeeList.add(e4);

HashMap<Long, String> nameIdMap=new HashMap<Long, String>();

nameIdMap.put(100l,"Rama");

nameIdMap.put(101l,"Sita");

nameIdMap.put(102l,"Lava");

nameIdMap.put(103l,"Kusha");

HashMap<String, String> nameDomainMap=new HashMap<String, String>();

nameDomainMap.put("Rama","JEE");

nameDomainMap.put("Sita",".Net");

nameDomainMap.put("Lava","VnV");

nameDomainMap.put("Kusha","BI");

getServletContext().setAttribute("nameList",nameList);

getServletContext().setAttribute("employeeList",employeeList);

getServletContext().setAttribute("nameIdMap",nameIdMap);

getServletContext().setAttribute("nameDomainMap",nameDomainMap);

response.sendRedirect("collection/collection.jsp");

}

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException { }}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*ELController.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.controller;

import java.io.IOException;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import com.igate.dto.Dog;

import com.igate.dto.Employee;

public class ELController extends HttpServlet {

private static final long serialVersionUID = 1L;

public ELController() { super(); }

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

Dog dog=new Dog();

dog.setName("Tommy");

dog.setBreed("Beagle");

Employee employee=new Employee();

employee.setEid(100);

employee.setEnm("Xavier");

employee.setEsl(33333.33);

employee.seteDog(dog);

getServletContext().setAttribute("employee",employee);

response.sendRedirect("object/employeeInfo.jsp"); }

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {}

}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*ScopeController.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.controller;

import java.io.IOException;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

public class ScopeController extends HttpServlet {

private static final long serialVersionUID = 1L;

public ScopeController() {

super();

}

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

HttpSession session=request.getSession();

String name="Mohan";

String company="IGATE";

String location="Banglore";

request.setAttribute("name",name); //will not be available in resultant page unless you forward

session.setAttribute("company",company);

getServletContext().setAttribute("location",location);

response.sendRedirect("scopes/allScopes.jsp");

}

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException { }

}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*index.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!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=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<h1>This demo illustrates EL syntax</h1>

<table border=*"1"*>

<tr><th colspan=*"2"*>Understanding EL</th></tr>

<tr>

<td><a href=*"ELController"*>Employee Info Using EL</a></td>

<td>Understand how EL refers to bean properties</td>

</tr>

<tr>

<td><a href=*"param/login.jsp"*>Using EL Refer to Parameters</a></td>

<td>Understand how EL refers to input parameters</td>

</tr>

<tr>

<td><a href=*"ScopeController"*>Using EL Refer to Scopes</a></td>

<td>Understand how EL refers to different Scopes</td>

</tr>

<tr>

<td><a href=*"CollectionController"*>Using EL Refer to Collection</a></td>

<td>Understand how EL refers to different collection</td>

</tr>

</table>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*allScopes.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!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=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<h1>Accessing information through attributes stored in different scopes</h1>

<h2>Without refering to scopes</h2>

Name : ${name}<br/>

Company : ${company}<br/>

Location : ${location}<br/>

<br/><br/><br/>

<h2>Refering to scopes with appropriate EL implicit object</h2>

Name : ${requestScope.name}<br/>

Company : ${sessionScope.company}<br/>

Location : ${applicationScope.location}<br/>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Collection.jsp\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!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=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<hr/>

<h1>Retriveing names from NameList</h1>

${nameList[0]}<br/>

${nameList[1]}<br/>

${nameList['2']}<br/>

${nameList[3]}<br/>

<hr/>

<h1>Retriveing Employee Info from EmployeeList</h1>

${employeeList[0].eid}

${employeeList[0].enm}

${employeeList[0].esl} <br/>

${employeeList['1'].eid}

${employeeList['1'].enm}

${employeeList['1'].esl} <br/>

<hr/>

<h1>Retriveing Entire Data from MAP using EL</h1>

${nameIdMap}<br/>

<hr/>

<h1>Retriveing Data from MAP&lt;Long,String&gt; using EL</h1>

${nameIdMap[100]}<br/>

${nameIdMap[101]}<br/>

${nameIdMap[102]}<br/>

${nameIdMap[103]}<br/>

<hr/>

<h1>Retriveing Data from MAP&lt;String String&gt; using EL</h1>

${nameDomainMap['Rama']}<br/>

${nameDomainMap['Sita']}<br/>

${nameDomainMap['Lava']}<br/>

${nameDomainMap['Kusha']}<br/>

<hr/>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*employeeInfo.jsp\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!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=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<h1>This Page will illustrate how to retrieve info and display data using EL</h1>

<table border=*'1'*>

<tr><th colspan=*"2"*>Employee Info</th></tr>

<tr><td>ID</td><td>${employee.eid}</td></tr>

<tr><td>Name</td><td>${employee.enm}</td></tr>

<tr><td>Salary</td><td>${employee.esl}</td></tr>

</table>

<hr/>

<table border=*'1'*>

<tr><th colspan=*"2"*>Employee Dog Info</th></tr>

<tr><td>Dog Name</td><td>${employee.eDog.name}</td></tr>

<tr><td>Dog Breed</td><td>${employee.eDog.breed}</td></tr>

</table>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*login.jsp\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!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=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<h1>Login PAGE</h1>

<form action=*"loginSuccess.jsp"* method=*"post"*>

<table>

<tr><th colspan=*"3"*>Login Credentials</th></tr>

<tr>

<td>Username</td>

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

<td></td>

</tr>

<tr>

<td>Password</td>

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

<td></td>

</tr>

<tr>

<td><input type=*"submit"* value=*'Login'*/></td>

</tr>

</table>

</form>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*loginSuccess.jsp\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<!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=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<h1>Login Success PAGE</h1>

<h2>

Welcome ${param.userName}

</h2>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Jsp2.2 Custom tag\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*GreetUs.jsp\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html

PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"

"http://www.w3.org/TR/html4/loose.dtd">

<%@taglib uri=*"linktogreet"* prefix=*"igate"* %>

<html>

<head>

<meta http-equiv=*"Content-Type"*

content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<h1>Hi from Html h1</h1>

<hr/>

<igate:greet username=*"Vaishali"*> Greet says Hi</igate:greet>

<hr/>

<%= " Hello from Jsp" %>

<igate:greet> Greet says Hi</igate:greet>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*WEB-INF/IGateTag.tld\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<?xml version=*"1.0"* encoding=*"ISO-8859-1"* ?>

<!DOCTYPE taglib

PUBLIC "-//Sun Microsystems, Inc.//DTD JSP Tag Library 1.1//EN"

"http://java.sun.com/j2ee/dtds/web-jsptaglibrary\_1\_1.dtd">

<taglib>

<tlibversion>1.0</tlibversion>

<jspversion>1.2</jspversion>

<shortname>grt</shortname>

<uri>linktogreet</uri>

<info>This is Greet tag saying Happy New Year

to the user.</info>

<tag>

<name>greet</name>

<tagclass>com.igate.handler.GreetHandler</tagclass>

<bodycontent>JSP</bodycontent>

<info>Greet tag Without attribute</info>

<attribute>

<name>username</name>

<required>false</required>

<rtexprvalue>true</rtexprvalue>

</attribute>

</tag>

</taglib>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*GreetHandler.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.handler;

import java.io.IOException;

import javax.servlet.jsp.JspException;

import javax.servlet.jsp.JspWriter;

import javax.servlet.jsp.PageContext;

import javax.servlet.jsp.tagext.Tag;

public class GreetHandler implements Tag

{

private PageContext pageContext;

private String username;

public String getUsername() {

return username;

}

public void setUsername(String username) {

this.username = username;

}

@Override

public int doEndTag() throws JspException

{

return EVAL\_PAGE;

}

@Override

public int doStartTag() throws JspException

{

JspWriter out=pageContext.getOut();

if(username!=null)

{

try

{

out.print("<font color='green'>");

out.print("<b>Happy New Year </b>:</font> "+username);

}

catch (IOException e)

{

e.printStackTrace();

}

}

else

{

try

{

out.print("<font color='green'>");

out.print("<b>Happy New Year Everyone </b>:</font> ");

}

catch (IOException e)

{

e.printStackTrace();

}

}

return SKIP\_BODY;

}

@Override

public Tag getParent()

{

return null;

}

@Override

public void release()

{ }

@Override

public void setPageContext(PageContext pg)

{

pageContext=pg;

}

@Override

public void setParent(Tag arg0)

{

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Employee Management System\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*index.jsp\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!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=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<%

response.sendRedirect("EmployeeController?action=RedirectToHome");

%>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Web.xml\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<web-app xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xmlns=*"http://xmlns.jcp.org/xml/ns/javaee"* xsi:schemaLocation=*"http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app\_3\_1.xsd"* id=*"WebApp\_ID"* version=*"3.1"*>

<display-name>EmployeeManagement</display-name>

<welcome-file-list>

<welcome-file>index.jsp</welcome-file>

</welcome-file-list>

</web-app>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Html/EmpHome.html\*\*\*\*\*\*\*\*\*\*\*\***

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<h1>Welcome To Employee Management U need To Log In </h1>

<a href=*"EmployeeController?action=DisplayLoginPage"*>Login</a></br>

<a href=*"/Pages/Register.jsp"*>Register</a>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*EmployeeController.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.controller;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.ArrayList;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletConfig;

import javax.servlet.ServletContext;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebInitParam;

import javax.servlet.annotation.\*;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import org.apache.log4j.Logger;

import org.apache.log4j.PropertyConfigurator;

import com.igate.dto.Employee;

import com.igate.exception.EmployeeException;

import com.igate.service.EmpServiceImpl;

import com.igate.service.IEmpService;

@WebServlet(name = "EmployeeController",

urlPatterns = { "/EmployeeController" },

initParams = {

@WebInitParam(name = "propFileName", value = "logger.properties")

})

public class EmployeeController extends HttpServlet {

private static final long serialVersionUID = 1L;

ServletContext ctx=null;

String path;

String filename=null;

ServletConfig config;

public EmployeeController()

{

super();

System.out.println(" Employee Controller Constructor");

}

public void init(ServletConfig config)

throws ServletException

{

this.config=config;

ctx = config.getServletContext();

filename = config.getInitParameter("propFileName");

System.out.println(" Employee Controller init function");

}

public void destroy()

{

System.out.println("Employee Controller Destroy...");

}

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

doPost(request,response);

}

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

path = ctx.getRealPath("/WEB-INF/" + filename);

PropertyConfigurator.configure(path);

Logger mylogger=Logger.getLogger("EmployeeController");

IEmpService empService=new EmpServiceImpl();

String action=request.getParameter("action");

PrintWriter out=response.getWriter();

if(action!=null)

{

if(action.equals("DisplayLoginPage"))

{

RequestDispatcher rd=

request.getRequestDispatcher("/Pages/Login.jsp");

rd.forward(request, response);

}

//\*\*\*\*\*\*\*\*\*End Of DisplayLoginPage\*\*\*\*\*\*\*\*\*\*\*\*

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*ShowEmpOpePage\*\*\*\*\*\*\*\*\*\*\*\*

if(action.equals("ShowEmpOpePage"))

{

System.out.println(" In ShowEmpOpePage action in servlet.............");

RequestDispatcher rd=

request.getRequestDispatcher("/Pages/EmployeeOperation.jsp");

rd.forward(request, response);

}

//\*\*\*\*\*\*ValidateUser action\*\*\*\*\*\*\*\*\*\*

if(action.equals("ValidateUser")

{

RequestDispatcher rd=

request.getRequestDispatcher

("/Pages/ValidateLogin.jsp");

rd.forward(request, response);

}

//\*\*\*\*\*\*\*\*\*\*\*\*End Of validateUser Action\*\*\*\*\*\*\*\*\*\*\*\*

//\*\*\*\*\*\*\*\*\*\*\*DisplayEditEmpPage Action\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

if(action.equals("DisplayEditEmpPage"))

{

int empId=Integer.parseInt(request.getParameter("employeeId"));

try

{

Employee emp=empService.getEmp(empId);

request.setAttribute("empObj", emp);

System.out.println(" DisplayEditEmpPage action...."+emp);

RequestDispatcher rd=request.getRequestDispatcher("Pages/EditEmployee.jsp");

rd.forward(request,response);

}

catch (Exception e)

{

System.out.println(" Exception in List Employee Controller Servlet....");

e.printStackTrace();

}

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*End of DisplayEditPage action\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*Edit Emp Action\*\*\*\*\*\*\*\*\*\*\*\*

if(action.equals("EditEmp"))

{

System.out.println("EditEmp action\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

ArrayList<Employee> empList;

int eid=Integer.parseInt(

request.getParameter("txtEId"));

String ename=request.getParameter("txtEName");

int sal=Integer.parseInt(request.getParameter

("txtESal"));

//create dto object

Employee empDto=new Employee

(eid, ename, sal);

try

{

int updatedFlag=empService.updateEmp(empDto);

if(updatedFlag==1)

{

empList = empService.getAllEmp();

System.out.println(" list is .."+empList);

request.setAttribute("EmpList", empList);

RequestDispatcher rd=

request.getRequestDispatcher

("/Pages/ListAllEmp.jsp");

rd.forward(request, response);

}

else

{

mylogger.debug("Record Not updated :"+empDto);

RequestDispatcher rd=request.getRequestDispatcher

("/Pages/ErrorPage.jsp");

rd.forward(request, response);

}

}

catch (EmployeeException e)

{

e.printStackTrace();

}

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*End Of Edit Emp Action\*\*\*\*\*\*\*

//Display Add Emp Page Actio

if(action.equals("DisplayAddEmpPage"))

{

int generatedEId=0;

try

{

generatedEId=empService.generateEmpId();

}

catch(EmployeeException e)

{

e.printStackTrace();

}

request.setAttribute("EmpId", generatedEId);

RequestDispatcher rd=

request.getRequestDispatcher

("/Pages/AddEmp.jsp");

rd.forward(request, response);

}

//\*\*\*\*\*\*\*\*\*\*\*\*Action for InsertEmp\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

if(action.equals("InsertEmp"))

{

int eid=Integer.parseInt(

request.getParameter("txtEId"));

String ename=request.getParameter("txtEName");

int sal=Integer.parseInt(request.getParameter

("txtESal"));

//create dto object

Employee empDto=new Employee

(eid, ename, sal);

//pass that empdto to service insert function.

try

{

int inserted=empService.inserEmp(empDto);

if(inserted==1)

{

mylogger.debug("Record Inserted :"+empDto);

RequestDispatcher rd=

request.getRequestDispatcher

("/Pages/EmployeeOperation.jsp");

rd.forward(request, response);

}

else

{

mylogger.debug("Record Not Inserted :"+empDto);

RequestDispatcher rd=request.getRequestDispatcher

("/Pages/ErrorPage.jsp");

rd.forward(request, response);

}

}

catch (EmployeeException e)

{

e.printStackTrace();

}

}

//\*\*\*\*\*\*\*End of insert Emp Action

//\*\*\*\*\*\*\*List all Emp Action

if(action.equals("ListAllEmp"))

{

try

{

ArrayList<Employee> empList=empService.

getAllEmp();

System.out.println(" list is .."+empList);

request.setAttribute("EmpList", empList);

RequestDispatcher rd=

request.getRequestDispatcher

("/Pages/ListAllEmp.jsp");

rd.forward(request, response);

} catch (EmployeeException e)

{

e.printStackTrace();

}

}

// forward to Home

if(action.equals("RedirectToHome"))

{

RequestDispatcher rd=

request.getRequestDispatcher

("/Html/EmpHome.html");

rd.forward(request, response);

}

}

else

{

out.print(" No Action Defined");

}

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*Pages/Login.jsp\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!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=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<h3> Employee Management Admin Login page</h3>

<form action=*"EmployeeController?action=ValidateUser"* method=*"post"*>

UserName:<input type=*"text"* name=*"txtUName"*

value=*""*/><br/>

Password:<input type=*"password"* name=*"txtPassword"*

value=*""*/>

<input type=*"submit"* name=*"btnLogin"*

value=*"ValidateUser"*/>

</form>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*ValidateLogin.jsp\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<%@page import=*"java.sql.PreparedStatement"*%>

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*

import=*"com.igate.util.DbUtil,java.sql.\*"*

session=*"true"*%>

<!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=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<%

String un=request.getParameter("txtUName");

String pw=request.getParameter("txtPassword");

Connection con=DbUtil.getConnection();

System.out.println(" Connnnnnn\*\*\*\*\*\*\*\*\*"+con);

String sql="SELECT \* from MyUser Where UName=?";

PreparedStatement pst=con.prepareStatement(sql);

pst.setString(1,un);

ResultSet rs=pst.executeQuery();

boolean present=false;

rs.next();

if(un.equalsIgnoreCase(rs.getString("UName"))&&

(pw.equalsIgnoreCase(rs.getString("password"))))

{

System.out.println("''''''''''''''Valid\*\*\*\*\*\*\*\*\*\*\*");

session.setAttribute("UserName", un);

%>

<jsp:forward page=*"/EmployeeController?action=ShowEmpOpePage"*></jsp:forward>

<!--<jsp:forward page="/Pages/EmployeeOperation.jsp"></jsp:forward>-->

<%

}

else

{

out.println(" User is In Valid User");

}

%>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Pages/EmpOperation.jsp\*\*\*\*\*\*\*\*\***

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"* session=*"true"*%>

<!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=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<%@taglib prefix=*"c"*

uri=*"http://java.sun.com/jsp/jstl/core"* %>

Welcome To Employee Management System:

<font color=*"green"*><c:out value=*"*${UserName}*"*></c:out></font>

<br/>

<a href=*"EmployeeController?action=DisplayAddEmpPage"*>Add Emp</a></br>

<a href=*""*>Update Emp</a></br>

<a href=*""*>Delete Emp</a></br>

<a href=*"EmployeeController?action=ListAllEmp"*>List Emp</a></br>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*AddEmp.jsp\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!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=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<%@taglib prefix=*"c"*

uri=*"http://java.sun.com/jsp/jstl/core"* %>

Welcome : <c:out value=*"*${UserName}*"*></c:out>

<h3>Enter Emp Info</h3>

<form action=*"EmployeeController?action=InsertEmp"* method=*"post"*>

Emp Id : <input type=*'text'*

name=*'txtEId'*

value=*'*<c:out value="${EmpId}"></c:out>*'* />

<br/>

Emp Name : <input type=*"text"* name=*"txtEName"*

value=*""* /><br/>

Emp Salary: <input type=*"text"* name=*"txtESal"*

value=*""* /><br/>

<input type=*"submit"* name=*"btmAddEmp"* value=*"Add Emp"*/>

</form>

<br/>

<br/>

<a href=*""*> Log Out</a>

<a href=*""*> List Emp</a>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*ListAllEmp.jsp\*\*\*\*\*\*\*\*\*\***

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!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=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<%@taglib prefix=*"c"*

uri=*"http://java.sun.com/jsp/jstl/core"* %>

<body>

Welcome : <c:out value=*"*${UserName}*"*></c:out>

<table border=*"1"*>

<tr>

<th>EmpId</th>

<th>Emp Name</th>

<th>Emp Sal</th>

</tr>

<c:forEach var=*"empObj"* items=*"*${EmpList}*"*>

<tr>

<td>${empObj.eid}</td>

<td>${empObj.ename}</td>

<td>${empObj.esal}</td>

<td><A href =

*"EmployeeController?action=DisplayEditEmpPage&employeeId=*${empObj.eid}*"*>

Edit</A></td>

<td><a href=*"EmployeeController?action=DeleteEmp&employeeId=*

${empObj.eid}*"*>Delete</a></td>

</tr>

</c:forEach>

</table>

<a href=*""*> Do U Want To Add Again</a>

<a href=*""*> LogOut</a>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*EditEmployee.jsp\*\*\*\*\*\*\*\*\*\*\*\***

<%@ page language=*"java"* %>

<html>

<head>

<title></title>

</head>

<%@taglib prefix=*"c"*

uri=*"http://java.sun.com/jsp/jstl/core"* %>

<body>

<c:set var=*"emp"* value=*"*${empObj}*"*/>

<form action=*"EmployeeController?action=EditEmp"* method=*"post"*>

<table width=*"500"* border=*"0"*>

<tr>

<td>Employee Id</td>

<td> ${empObj.eid}

<input type = *"hidden"*

name =*"txtEId"* value=*"*${emp.eid}*"* ></td>

</tr>

<tr>

<td>Employee Name</td>

<td><input type=*"text"* name=*"txtEName"* value=*"*${emp.ename}*"*></td>

</tr>

<tr>

<td>Employee Salary</td>

<td><input type=*"text"* name=*"txtESal"* value=*"*${emp.esal}*"*></td>

</tr>

<tr>

<td> <input type=*"submit"* name =*"submit"* value=*"Update"*> </td>

</tr>

</table>

</form>

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*Pages/ErrorPage.jsp\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!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=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

Data is not inserted in table Error Page

</body>

</html>

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*WEB-INF.logger.properties\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

# Define the root logger with appender file

log = /usr/home/log4j

log4j.rootLogger = DEBUG, FILE

# Define the file appender

log4j.appender.FILE=org.apache.log4j.FileAppender

log4j.appender.FILE.File=${log}/EmpOpeUser.log

# Define the layout for file appender

log4j.appender.FILE.layout=org.apache.log4j.PatternLayout

log4j.appender.FILE.layout.conversionPattern=%m%n

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*EmpServiceImpl.java\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.service;

import java.util.ArrayList;

import com.igate.dao.EmpDaoImpl;

import com.igate.dao.IEmpDao;

import com.igate.dto.Employee;

import com.igate.exception.EmployeeException;

public class EmpServiceImpl implements IEmpService

{

IEmpDao empDao=new EmpDaoImpl();

@Override

public int generateEmpId() throws EmployeeException {

return empDao.generateEmpId();

}

@Override

public int inserEmp(Employee employeeDto)

throws EmployeeException {

return empDao.inserEmp(employeeDto);

}

@Override

public ArrayList<Employee> getAllEmp() throws

EmployeeException {

return empDao.getAllEmp();

}

@Override

public Employee getEmp(int empId) throws EmployeeException

{

return empDao.getEmp(empId);

}

@Override

public int updateEmp(Employee empDto) throws EmployeeException {

return empDao.updateEmp(empDto);

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*EmployeeControllerFilter.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.filter;

import java.io.IOException;

import java.util.ArrayList;

import java.util.Date;

import javax.servlet.DispatcherType;

import javax.servlet.Filter;

import javax.servlet.FilterChain;

import javax.servlet.FilterConfig;

import javax.servlet.ServletConfig;

import javax.servlet.ServletContext;

import javax.servlet.ServletException;

import javax.servlet.ServletRequest;

import javax.servlet.ServletResponse;

import javax.servlet.annotation.WebFilter;

import javax.servlet.annotation.WebInitParam;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpSession;

import org.apache.log4j.Logger;

import org.apache.log4j.PropertyConfigurator;

import com.igate.controller.EmployeeController;

@WebFilter(filterName = "EmpControllerFilter",

dispatcherTypes={DispatcherType.REQUEST,

DispatcherType.FORWARD,DispatcherType.INCLUDE},

urlPatterns = {"/EmployeeController"},

initParams = { @WebInitParam(name = "propFileName", value = "logger.properties") })

public class EmpControllerFilter implements Filter

{

private Logger log = null;

ServletContext ctx=null;

String path;

String filename=null;

public void init(FilterConfig fConfig) throws ServletException

{

System.out.println(" init EmpControllerFilter Log Filter.........");

ctx = fConfig.getServletContext();

filename = fConfig.getInitParameter("propFileName");

}

public void doFilter(ServletRequest request, ServletResponse response,

FilterChain chain) throws IOException, ServletException

{

System.out.println("in do filter..............................................");

path = ctx.getRealPath("/WEB-INF/" + filename);

PropertyConfigurator.configure(path);

log = Logger.getLogger(EmployeeController.class);

Date currDate=new Date();

log.info(currDate+ " : ");

chain.doFilter(request, response);

}

public void destroy() {

System.out.println(" destroy Audit Log Filter.........");

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*EmpDaoImpl.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.dao;

import java.sql.\*;

import java.util.ArrayList;

import com.igate.dto.Employee;

import com.igate.exception.EmployeeException;

import com.igate.util.DbUtil;

public class EmpDaoImpl implements IEmpDao

{

Connection con;

PreparedStatement pst;

Statement st;

ResultSet rs;

@Override

public int generateEmpId() throws EmployeeException

{

int generatedEmpId;

con=DbUtil.getConnection();

String seqQuery="SELECT seq\_emp.NEXTVAL FROM DUAL";

try

{

st=con.createStatement();

rs=st.executeQuery(seqQuery);

rs.next();

generatedEmpId=rs.getInt(1);

}

catch (SQLException e)

{

e.printStackTrace();

throw new EmployeeException(e.getMessage());

}

finally

{

try

{

rs.close();

st.close();

con.close();

}

catch (SQLException e)

{

e.printStackTrace();

throw new EmployeeException(e.getMessage());

}

}

return generatedEmpId;

}

@Override

public int inserEmp(Employee employeeDto) throws EmployeeException {

con=DbUtil.getConnection();

int inserted=0;

String insertQuery="INSERT INTO employee414 VALUES(?,?,?)";

try

{

pst=con.prepareStatement(insertQuery);

pst.setInt(1, employeeDto.getEid());

pst.setString(2, employeeDto.getEname());

pst.setInt(3, employeeDto.getEsal());

inserted =pst.executeUpdate();

}

catch (SQLException e)

{

e.printStackTrace();

throw new EmployeeException(e.getMessage());

}

finally

{

try

{

pst.close();

con.close();

}

catch (SQLException e)

{

e.printStackTrace();

throw new EmployeeException(e.getMessage());

}

}

return inserted;

}

@Override

public ArrayList<Employee> getAllEmp() throws EmployeeException {

con=DbUtil.getConnection();

ArrayList<Employee> empList=new ArrayList<Employee>();

String selectAllEmpQuery="SELECT \* FROM employee414";

try

{

st=con.createStatement();

rs=st.executeQuery(selectAllEmpQuery);

while(rs.next())

{

Employee emp=new Employee(

rs.getInt("eid"),

rs.getString("enm"),

rs.getInt("esal"));

empList.add(emp);

}

}

catch (SQLException e)

{

e.printStackTrace();

throw new EmployeeException(e.getMessage());

}

finally

{

try

{

rs.close();

st.close();

con.close();

}

catch (SQLException e)

{

e.printStackTrace();

throw new EmployeeException(e.getMessage());

}

}

return empList;

}

@Override

public Employee getEmp(int empId) throws EmployeeException

{

con=DbUtil.getConnection();

Employee emp=null;

try

{

pst=con.prepareStatement("select \* from employee414 where eid=?");

pst.setInt(1, empId);

rs=pst.executeQuery();

rs.next();

emp=new Employee(rs.getInt(1),

rs.getString(2),rs.getInt(3));

}

catch (SQLException e)

{

e.printStackTrace();

throw new EmployeeException(e.getMessage());

}

finally

{

try

{

rs.close();

pst.close();

con.close();

}

catch (SQLException e)

{

e.printStackTrace();

throw new EmployeeException(e.getMessage());

}

}

return emp;

}

@Override

public int updateEmp(Employee empDto) throws EmployeeException {

con=DbUtil.getConnection();

String updateQry="Update employee414 SET enm=?,"

+ "esal=? WHERE eid=?";

int updatedFlag=0;

try

{

pst=con.prepareStatement(updateQry);

pst.setString(1, empDto.getEname());

pst.setInt(2, empDto.getEsal());

pst.setInt(3, empDto.getEid());

updatedFlag=pst.executeUpdate();

}

catch (SQLException e)

{

e.printStackTrace();

throw new EmployeeException(e.getMessage());

}

finally

{

try

{

pst.close();

con.close();

}

catch (SQLException e)

{

e.printStackTrace();

throw new EmployeeException(e.getMessage());

}

}

return updatedFlag;

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Employee.java\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

package com.igate.dto;

public class Employee

{

private int eid;

private String ename;

private int esal;

public int getEid() {

return eid;

}

public void setEid(int eid) {

this.eid = eid;

}

public String getEname() {

return ename;

}

public void setEname(String ename) {

this.ename = ename;

}

public int getEsal() {

return esal;

}

public void setEsal(int esal) {

this.esal = esal;

}

@Override

public String toString() {

return "Employee [eid=" + eid + ", ename=" + ename + ", esal=" + esal

+ "]";

}

public Employee(int eid, String ename, int esal) {

super();

this.eid = eid;

this.ename = ename;

this.esal = esal;

}

}