Demonstrate Hibernate logging by Log4j.

Hibernate.cfg.xml

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

<!**DOCTYPE** hibernate-configuration PUBLIC

"-//Hibernate/Hibernate Configuration DTD 3.0//EN" " http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">

<**hibernate-configuration**>

<**session-factory**>

<!-- Database connection settings -->

<**property** name=*"hibernate.dialect"*> org.hibernate.dialect.MySQL5Dialect</**property**>

<**property** name=*"connection.driver\_class"*>com.mysql.cj.jdbc.Driver</**property**>

<**property** name=*"connection.url"*>jdbc:mysql://localhost:3306/soni</**property**>

<**property** name=*"connection.username"*> root</**property**>

<**property** name=*"connection.password"*>sonikaSHETTY#17</**property**>

<**property** name=*"show\_sql"*> true </**property**>

<**property** name=*"hbm2ddl.auto"*> update </**property**>

</**session-factory**>

</**hibernate-configuration**>

Log4j properties

log4j.appender.file=org.apache.log4j.RollingFileAppender

log4j.appender.file.File=/home/oem/Downloads/hibernate.log

log4j.appender.file.MaxFileSize=1MB

log4j.appender.file.MaxBackupIndex=1

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

log4j.appender.file.layout.ConversionPattern=%d{ABSOLUTE} %5p %c**{1}**:%L - %m%n

# Direct log messages to stdout

log4j.appender.stdout=org.apache.log4j.ConsoleAppender

log4j.appender.stdout.Target=System.out

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

log4j.appender.stdout.layout.ConversionPattern=%d{ABSOLUTE} %5p %c**{1}**:%L - %m%n

# Root logger option

log4j.rootLogger=INFO, file, stdout

# Log everything. Good for troubleshooting

log4j.logger.org.hibernate=INFO

# Log all JDBC parameters

log4j.logger.org.hibernate.type=ALL

Index.html

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>Hibernate Configuration Example</title>

</head>

<body>

<a href="init">Initialize Hibernate</a><br>

</body>

HibernateUtil.java

package com.ecommerce;

import org.hibernate.SessionFactory;

import org.hibernate.boot.Metadata;

import org.hibernate.boot.MetadataSources;

import org.hibernate.boot.registry.StandardServiceRegistry;

import org.hibernate.boot.registry.StandardServiceRegistryBuilder;

public class HibernateUtil {

private static final SessionFactory ***sessionFactory***;

static {

try {

StandardServiceRegistry standardRegistry = new StandardServiceRegistryBuilder()

.configure("hibernate.cfg.xml").build();

Metadata metaData = new MetadataSources(standardRegistry).getMetadataBuilder().build();

***sessionFactory*** = metaData.getSessionFactoryBuilder().build();

} catch (Throwable th) {

throw new ExceptionInInitializerError(th);

}

}

public static SessionFactory getSessionFactory() {

return ***sessionFactory***;

}

}

InitHibernate.java

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletConfig;

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.transaction.\*;

import javax.xml.bind.\*;

import java.io.Serializable;

import java.util.List;

import org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.Transaction;

import org.hibernate.cfg.Configuration;

import com.ecommerce.HibernateUtil;

/\*\*

\* Servlet implementation class InitHibernate

\*/

*@WebServlet*("/InitHibernate")

public class InitHibernate extends HttpServlet {

private static final long ***serialVersionUID*** = 1L;

/\*\*

\* **@see** HttpServlet#HttpServlet()

\*/

public InitHibernate() {

super();

// **TODO** Auto-generated constructor stub

}

/\*\*

\* **@see** HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

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

// **TODO** Auto-generated method stub

try {

PrintWriter out = response.getWriter();

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

SessionFactory factory = HibernateUtil.*getSessionFactory*();

Session session = factory.openSession();

out.println("Hibernate Session opened.<br>");

session.close();

out.println("Hibernate Session closed.<br>");

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

} catch (Exception ex) {

throw ex;

}

}

/\*\*

\* **@see** HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

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

// **TODO** Auto-generated method stub

doGet(request, response);

}

}

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\_4\_0.xsd"* id=*"WebApp\_ID"* version=*"4.0"*>

<**display-name**>Hibernatelog4j</**display-name**>

<**welcome-file-list**>

<**welcome-file**>index.html</**welcome-file**>

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

<**welcome-file**>index.htm</**welcome-file**>

<**welcome-file**>default.html</**welcome-file**>

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

<**welcome-file**>default.htm</**welcome-file**>

</**welcome-file-list**>

<**servlet**>

<**servlet-name**>InitHibernate</**servlet-name**>

<**servlet-class**>InitHibernate</**servlet-class**>

</**servlet**>

<**servlet-mapping**>

<**servlet-name**>InitHibernate</**servlet-name**>

<**url-pattern**>/init</**url-pattern**>

</**servlet-mapping**>

</**web-app**>