## Assisted project4: Demonstrate Hibernate logging by Log4j.

```
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>
</html>
Hibernate.cfg.xml:
<?xml version='1.0' encoding='utf-8'?>
<!DOCTYPE hibernate-configuration PUBLIC</p>
"-//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="connection.driver_class">com.mysql.jdbc.Driver</property>
cproperty
name="connection.url">jdbc:mysql://localhost:3306/ecommerce</property>
cproperty name="connection.username">root/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
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.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

```
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import com.ecommerce.HibernateUtil;
/**
* Servlet implementation class InitHibernate
*/
@WebServlet("/init")
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);
}
}
```

