# Assisted Project 1: Configure Hibernate in Eclipse IDE.

## Index.html:

```
<?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>phasehibernatedemo</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>
</web-app>
```

## 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="connection.driver_class">com.mysql.cj.jdbc.Driver</property>
   <property name="connection.url">jdbc:mysql://localhost:3306/ecommerce</property>
   <property name="connection.username">root</property>
   <property name="connection.password">Vinny@123</property>

 </session-factory>
</hibernate-configuration>
```

## InitDemo.java:

```
package com.simpli;
import java.io.IOException;
import java.io.PrintWriter;

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
```

```java
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import org.hibernate.Session;
import org.hibernate.SessionFactory;

@WebServlet("/init")
public class InitDemo extends HttpServlet {
private static final long serialVersionUID = 1L;

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

PrintWriter out = response.getWriter();
out.println("<html><body>");

// STEP 1: Get a Session (connection) from the Session Factory class
SessionFactory factory = HibernateUtil.getSessionFactory();

Session session = factory.openSession();

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

session.close();

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

// STEP 2 execute the HQL commands
// for now we will only test if the connection is establised with MySQL server.

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

}

}
```

HibernateUtil.Java:
```java
package com.simpli;


import org.hibernate.SessionFactory;
import org.hibernate.boot.*;
import org.hibernate.boot.registry.*;
```

```java
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;
}

}
```