

# Configuration of Hibernate

//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.jdbc.Driver</property>
    <property name="connection.url">
jdbc:mysql://localhost:3306/ecommerce</property>
    <property name="connection.username">mysql user id</property>
    <property name="connection.password">mysql
password</property>
  </session-factory>
</hibernate-configuration>
```

//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>

//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.EProduct;  
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);
    }
}

```