Hibernate Configuration Using Annotations in Eclipse

Hibernate.cfg.xml:

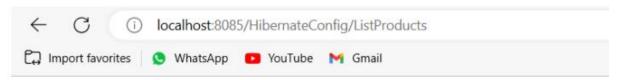
```
<?xml version='1.0' encoding='utf-8'?>
<!DOCTYPE hibernate-configuration PUBLIC</pre>
"-//Hibernate/Hibernate Configuration DTD 3.0//EN"
"http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">
<hibernate-configuration>
  <session-factory>
    <!-- Database connection settings -->
    property
name="connection.driver class">com.mysql.jdbc.Driver/property>
   property
name="connection.url">jdbc:mysql://localhost:3306/ecommerce/property>
   cproperty name="connection.username">root/property>
    property name="connection.password">Mgokulakrishnan@12/property>
  </session-factory>
</hibernate-configuration>
HibernateUtil:
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;
        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;
        }
}
Index.html:
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Hibernate Annotation Example</title>
```

```
</head>
<body>
<a href="list">List Products</a><br>
</body>
</html>
EProduct:
package com.ecommerce;
import java.math.BigDecimal;
import java.util.Date;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.Id;
import javax.persistence.Table;
@Entity
@Table(name= "eproduct")
public class EProduct {
         @Id @GeneratedValue
         @Column(name = "ID")
         private long ID;
         @Column(name = "name")
         private String name;
         @Column(name = "price")
         private BigDecimal price;
         @Column(name = "date added")
         private Date dateAdded;
         public long getID() {return this.ID; }
         public String getName() { return this.name;}
         public BigDecimal getPrice() { return this.price;}
         public Date getDateAdded() { return this.dateAdded;}
         public void setID(long id) { this.ID = id;}
         public void setName(String name) { this.name = name;}
         public void setPrice(BigDecimal price) { this.price = price;}
         public void setDateAdded(Date date) { this.dateAdded = date;}
}
ListProducts:
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 ListProducts
@WebServlet("/ListProducts")
public class ListProducts extends HttpServlet {
       private static final long serialVersionUID = 1L;
    /**
* @see HttpServlet#HttpServlet()
   public ListProducts() {
        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 {
                        SessionFactory factory =
HibernateUtil.getSessionFactory();
                        Session session = factory.openSession();
                        // using HQL
                        List<EProduct> list = session.createQuery("from
EProduct").list();
                        session.close();
                         PrintWriter out = response.getWriter();
                         out.println("<html><body>");
                         out.println("<b>Product Listing</b><br>");
                         for(EProduct p: list) {
                                 out.println("ID: " +
String.valueOf(p.getID()) + ", Name: " + p.getName() +
                                                ", Price: " +
String.valueOf(p.getPrice()) + ", Date Added: " +
p.getDateAdded().toString() + "<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);
        }
}
            Hibernate Annotation Example
                             localhost:8080/HibernateAnnotations/Index.html
                                     G Dashboard - Great... Meet – zvt-gkxx-ac
            YouTube
                          Maps Maps
```

List Products



Product Listing

ID: 1, Name: HP Laptop ABC, Price: 12000.00, Date Added: 2023-05-25 15:30:41.0

ID: 2, Name: Acer Laptop ABC, Price: 14000.00, Date Added: 2023-05-25 15:32:05.0

ID: 3, Name: Lenova Laptop ABC, Price: 12000.00, Date Added: 2023-05-25 15:32:27.0