Eproduct:

```
package com.ecommerce;
import java.math.BigDecimal;
import java.util.Date;
public class EProduct {
        private long ID;
        private String name;
        private BigDecimal price;
        private Date dateAdded;
        public EProduct() {
        }
        public EProduct(long id, String name, BigDecimal price, Date dateAdded) {
                this.ID = id;
                this.name = name;
                this.price = price;
                this.dateAdded = 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;}
}
Hibernate:
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;
        }
}
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 = 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);
        }
}
```