Index.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Add product</title>
</head>
<body>
<form action="AddProductServlet" method="post">
    <!-- Form fields for product name, description, and price -->
    <!-- Add validation if needed -->
    <input type="text" name="name" placeholder="Product Name" required /><br</pre>
    <textarea name="description" placeholder="Product Description"</pre>
required></textarea><br />
    <input type="text" name="price" placeholder="Price" required /><br />
    <input type="submit" value="Add Product" />
</form>
</body>
</html>
```

productAdded.jsp

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;
        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;
}
```

Product.java

```
package com.ecommerce;
import java.math.BigDecimal;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.Table;
```

```
@Entity
@Table(name = "products")
public class Product {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private int id;
   private String name;
    private String description;
    private BigDecimal price;
     public Product (int id, String name, String description, BigDecimal
price) {
//
            super();
//
            this.id = id;
//
            this.name = name;
//
            this.description = description;
//
            this.price = price;
//
      public int getId() {
            return id;
      public void setId(int id) {
            this.id = id;
      public String getName() {
            return name;
      public void setName(String name) {
            this.name = name;
      public String getDescription() {
            return description;
      public void setDescription(String description) {
            this.description = description;
      public BigDecimal getPrice() {
            return price;
      public void setPrice(BigDecimal price) {
            this.price = price;
```

}

Product.hbm.xml

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="hibernate.connection.driver class">com.mysql.jdbc.Driver/property>
        property
name="hibernate.connection.url">jdbc:mysql://localhost:3306/ecommerce/proper
ty>
       property name="hibernate.connection.username">root/property>
        property name="hibernate.connection.password">
       <!-- Specify dialect -->
        property
name="hibernate.dialect">org.hibernate.dialect.MySQLDialect/property>
        <!-- Specify mapping files -->
        <mapping resource="com/ecommerce/Product.hbm.xml" />
        <mapping class="com.ecommerce.Product" />
    </session-factory>
</hibernate-configuration>
```

AddProductServlet.java

```
import java.io.IOException;
import java.math.BigDecimal;
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 java.io.IOException;
import java.math.BigDecimal;
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 org.hibernate.Transaction;
import com.ecommerce.HibernateUtil;
import com.ecommerce.Product;
/**
 * Servlet implementation class AddProductServlet
@WebServlet("/AddProductServlet")
public class AddProductServlet extends HttpServlet {
     private static final long serialVersionUID = 1L;
    /**
     * @see HttpServlet#HttpServlet()
   public AddProductServlet() {
        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
```

```
response.getWriter().append("Served at:
").append(request.getContextPath());
      /**
       * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
     protected void doPost(HttpServletRequest request, HttpServletResponse
response)
            throws ServletException, IOException {
        // Retrieve form data
        String name = request.getParameter("name");
        String description = request.getParameter("description");
       BigDecimal price = new BigDecimal(request.getParameter("price"));
        // Create a Product object
        Product product = new Product();
       product.setName(name);
       product.setDescription(description);
       product.setPrice(price);
        // Save the product using Hibernate
        SessionFactory = HibernateUtil.getSessionFactory();
        Session session = sessionFactory.openSession();
       Transaction transaction = session.beginTransaction();
       session.save(product);
        transaction.commit();
        session.close();
        // Redirect to a confirmation page or display a message
        response.sendRedirect("productAdded.jsp");
    }
}
```

Web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"</pre>
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 4 0.xsd" id="WebApp ID"
version="4.0">
  <display-name>HibernateLazyCollections</display-name>
  <welcome-file-list>
    <welcome-file>index.html</welcome-file>
    <welcome-file>index.htm</welcome-file>
    <welcome-file>index.jsp</welcome-file>
    <welcome-file>default.html</welcome-file>
    <welcome-file>default.htm</welcome-file>
    <welcome-file>default.jsp</welcome-file>
  </welcome-file-list>
  <servlet>
```