

Index.jsp:

```
<h3><a href="productList">List Products</a></h3>
```

Prodcut-list.jsp:

```
<%@taglib uri="http://www.springframework.org/tags" prefix="spring"%>
<%@taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<%@taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<html>
<head>
<title>Spring With Hibernate</title>
</head> <body>
<h3>Product List </h3>
<c:if test="${!empty productList}">
<table class="data">
<tr>
<th>Name</th>
<th>Price</th>
<th>Date Added</th>
</tr>
<c:forEach items="${productList}" var="product">
<tr>
<td>${product.name} </td>
<td>${product.price}</td>
<td>${product.dateAdded}</td>
</tr>
</c:forEach>
</table>
</c:if>
</body>
</html>
```

Jdbc Properties:

```
jdbc.driverClassName=com.mysql.jdbc.Driver
jdbc.dialect=org.hibernate.dialect.MySQLDialect
jdbc.databaseurl=jdbc:mysql://127.0.0.1:3306/ecommerce
jdbc.username=root
jdbc.password=R@mya2563853
```

Main-servlet.jsp

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:aop="http://www.springframework.org/schema/aop"
xmlns:context="http://www.springframework.org/schema/context"
xmlns:jee="http://www.springframework.org/schema/jee"
xmlns:lang="http://www.springframework.org/schema/lang"
xmlns:p="http://www.springframework.org/schema/p"
xmlns:tx="http://www.springframework.org/schema/tx"
xmlns:util="http://www.springframework.org/schema/util"
```

```
xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans-2.5.xsd
http://www.springframework.org/schema/aop
http://www.springframework.org/schema/aop/spring-aop-2.5.xsd
http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context-2.5.xsd
http://www.springframework.org/schema/tx
http://www.springframework.org/schema/tx/spring-tx-2.5.xsd">
```

```
<bean id="jspViewResolver"
class="org.springframework.web.servlet.view.InternalResourceViewResolver">
<property name="viewClass"
value="org.springframework.web.servlet.view.JstlView"></property>
<property name="prefix" value="/WEB-INF/view/"></property>
<property name="suffix" value=".jsp"></property>
</bean>
<bean id="messageSource"
class="org.springframework.context.support.ReloadableResourceBundleMessageSource">
<property name="basename" value="classpath:messages"></property>
<property name="defaultEncoding" value="UTF-8"></property>
</bean>
```

```
<context:annotation-config />
```

```
<context:component-scan
base-package="com.ecommerce.entity" />
<context:component-scan
base-package="com.ecommerce.dao" />
<context:component-scan
base-package="com.ecommerce.controller" />
```

```
<bean id="propertyConfigurer"
class="org.springframework.beans.factory.config.PropertyPlaceholderConfigurer"
p:location="/WEB-INF/jdbc.properties">
</bean>
```

```
<bean id="dataSource"
class="org.apache.commons.dbcp.BasicDataSource" destroy-method="close"
p:driverClassName="${jdbc.driverClassName}"
p:url="${jdbc.databaseurl}" p:username="${jdbc.username}"
p:password="${jdbc.password}"></bean>
```

```
<bean id="sessionFactory"
class="org.springframework.orm.hibernate3.LocalSessionFactoryBean">
<property name="dataSource" ref="dataSource"></property>
<property name="configLocation">
```

```

<value>classpath:hibernate.cfg.xml</value>
</property>
<property name="configurationClass">
<value>org.hibernate.cfg.AnnotationConfiguration </value>
</property>
<property name="hibernateProperties">
<props>
<prop key="hibernate.dialect">${jdbc.dialect}</prop>
<prop key="hibernate.show_sql">true</prop>
</props>
</property>
</bean>

<bean id="eproductDAO" class="com.ecommerce.dao.EProductDAO"></bean>

<tx:annotation-driven />
<bean id="transactionManager"
class="org.springframework.orm.hibernate3.HibernateTransactionManager">
<property name="sessionFactory" ref="sessionFactory"></property>
</bean>

</beans>

```

Web.xml:

```

<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns="http://java.sun.com/xml/ns/javaee" version="2.5"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd">
<display-name>Archetype Created Web Application</display-name>
<welcome-file-list>
<welcome-file>/WEB-INF/view/index.jsp</welcome-file>
</welcome-file-list>
<context-param>
<param-name>contextConfigLocation</param-name>
<param-value>/WEB-INF/main-servlet.xml</param-value>
</context-param>
<servlet>
<servlet-name>main</servlet-name>
<servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
<load-on-startup>1</load-on-startup>
</servlet>
<servlet-mapping>
<servlet-name>main</servlet-name>
<url-pattern>/</url-pattern>
</servlet-mapping>

<listener>

```

```
<listener-class>org.springframework.web.context.ContextLoaderListener</listener-  
class>  
</listener>  
</web-app>
```

Pom.xml:

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<project xmlns="http://maven.apache.org/POM/4.0.0"  
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0  
http://maven.apache.org/xsd/maven-4.0.0.xsd">  
<modelVersion>4.0.0</modelVersion>
```

```
<groupId>com</groupId>  
<artifactId>hibernatespring</artifactId>  
<version>0.0.1-SNAPSHOT</version>  
<packaging>war</packaging>
```

```
<name>hibernatespring Maven Webapp</name>  
<!-- FIXME change it to the project's website -->  
<url>http://www.example.com</url>
```

```
<properties>  
<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>  
<maven.compiler.source>1.7</maven.compiler.source>  
<maven.compiler.target>1.7</maven.compiler.target>  
</properties>
```

```
<dependencies>  
<dependency>  
<groupId>junit</groupId>  
<artifactId>junit</artifactId>  
<version>4.11</version>  
<scope>test</scope>  
</dependency>  
</dependencies>
```

```
<build>  
<finalName>hibernatespring</finalName>  
<pluginManagement><!-- lock down plugins versions to avoid using Maven defaults  
(may be moved to parent pom) -->  
<plugins>  
<plugin>  
<artifactId>maven-clean-plugin</artifactId>
```

```

<version>3.1.0</version>
</plugin>
<!-- see http://maven.apache.org/ref/current/maven-core/default-bindings.html#Plugin bindings for war packaging -->
<plugin>
<artifactId>maven-resources-plugin</artifactId>
<version>3.0.2</version>
</plugin>
<plugin>
<artifactId>maven-compiler-plugin</artifactId>
<version>3.8.0</version>
</plugin>
<plugin>
<artifactId>maven-surefire-plugin</artifactId>
<version>2.22.1</version>
</plugin>
<plugin>
<artifactId>maven-war-plugin</artifactId>
<version>3.2.2</version>
</plugin>
<plugin>
<artifactId>maven-install-plugin</artifactId>
<version>2.5.2</version>
</plugin>
<plugin>
<artifactId>maven-deploy-plugin</artifactId>
<version>2.8.2</version>
</plugin>
</plugins>
</pluginManagement>
</build>
</project>

```

ProductController.java:

```
package com.ecommerce.controller;
```

```
import java.util.List;
```

```
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.ModelMap;
import org.springframework.web.bind.annotation.*;
import com.ecommerce.dao.EProductDAO;
import com.ecommerce.entity.EProductEntity;
```

```
@Controller
```

```
public class ProductController {
```

```
@Autowired
```

```
private EProductDAO eproductDAO;
```

```

@RequestMapping(value = "/productList", method = RequestMethod.GET)
public String listProducts(ModelMap map) {
    List<EProductEntity> list = eproductDAO.getAllProducts();

    map.addAttribute("productList", list);

    return "product-list"; // go to product-list.jsp
}

```

EproductDAO:

```
package com.ecommerce.dao;
```

```

import java.util.List;
import org.hibernate.SessionFactory;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.*;
import org.springframework.transaction.annotation.Transactional;

```

```
import com.ecommerce.entity.EProductEntity;
```

```

@Repository
public class EProductDAO {
    @Autowired
    private SessionFactory sessionFactory;

```

```
// Business Methods
```

```

@Transactional
@SuppressWarnings("unchecked")
public List<EProductEntity> getAllProducts() {
    return this.sessionFactory.getCurrentSession().createQuery("from EProductEntity").list();
}
}

```

Eproduct.entity:

```
package com.ecommerce.entity;
```

```
import java.math.BigDecimal;
```

```

import javax.persistence.*;
import java.util.Date;

```

```

@Entity
@Table(name = "eproduct")
public class EProductEntity {
    @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;
}
}

```

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>
<mapping class="com.ecommerce.entity.EProductEntity" />
</session-factory>
</hibernate-configuration>
```