

EProduct.java:

```
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 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;}
```

```
}
```

ProductController:

```
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.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RequestParam;
```

```
import com.ecommerce.EProduct;
import com.ecommerce.dao.EProductDAO;
```

```
@Controller
```

```
public class ProductController {
```

```
@Autowired
```

```
EProductDAO eproductDAO;
```

```
@RequestMapping(value = "/listProducts", method = RequestMethod.GET)
```

```
public String listProducts(ModelMap map) {
```

```
List<EProduct> list = eproductDAO.getProducts();
```

```
map.addAttribute("listOfProducts", list);
```

```
return "list-products"; // go to "list-products.jsp"
```

```
}
```

```
@RequestMapping(value = "/addProduct", method = RequestMethod.POST)
```

```
public String addProduct(@RequestParam String name, @RequestParam float price) {
```

```
eproductDAO.addProduct(name, price);
```

```
return "add-product-success"; // go to "add-product-success.jsp"
```

```

}

@RequestMapping(value = "/deleteProduct", method = RequestMethod.POST)
public String deleteProduct(@RequestParam int id) {
    eproductDAO.deleteProduct(id);

    return "delete-product-success"; // go to "add-product-success.jsp"
}

}

```

EProductDAO:

```

package com.ecommerce.dao;

import java.sql.*;
import java.util.List;

import org.springframework.jdbc.core.*;

import com.ecommerce.EProduct;

public class EProductDAO {

    JdbcTemplate template;

    public void setTemplate(JdbcTemplate template) {
        this.template = template;
    }

    // Business methods
    public List<EProduct> getProducts() {

```

```
return template.query("select * from eproduct", new RowMapper<EProduct>() {
```

```
public EProduct mapRow(ResultSet rs, int row) throws SQLException {
```

```
EProduct e = new EProduct();
```

```
e.setID(rs.getInt(1));
```

```
e.setName(rs.getString(2));
```

```
e.setPrice(rs.getBigDecimal(3));
```

```
e.setDateAdded(rs.getDate(4));
```

```
return e;
```

```
}
```

```
});
```

```
}
```

```
// Add a product
```

```
public void addProduct(String name, float price) {
```

```
String insertSQL = "insert into eproduct(name,price) values(?,?)";
```

```
template.update(insertSQL, new Object[] {name, price});
```

```
}
```

```
// Update a product price
```

```
public void updateProduct(String id, float price) {
```

```
String updateSQL = "update eproduct set price=? where id=?";
```

```
template.update(updateSQL, new Object[] { price, id });  
}
```

```
// Delete a product
```

```
public void deleteProduct(int id) {  
    String deleteSQL = "delete from eproduct where id=?";  
    template.update(deleteSQL, new Object[] { id });  
}
```

```
}
```

Delete-product.jsp:

```
<%@ page language="java" contentType="text/html; charset=UTF-8"  
pageEncoding="UTF-8"%>
```

```
<h3>Delete a product</h3>
```

```
<form action="deleteProduct" method="POST">
```

```
ID: <input name="id"><br>
```

```
<input type="submit">
```

```
</form>
```

Main-servlet.xml:

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

```
<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="ds"
class="org.springframework.jdbc.datasource.DriverManagerDataSource">
<property name="driverClassName"
```

```

value="com.mysql.jdbc.Driver"></property>
<property name="url"
value="jdbc:mysql://localhost:3306/ecommerce"></property>
<property name="username" value="root"></property>
<property name="password" value="R@mya2563853"></property>
</bean>

<bean id="jt" class="org.springframework.jdbc.core.JdbcTemplate">
<property name="dataSource" ref="ds"></property>
</bean>

<bean id="dao" class="com.ecommerce.dao.EProductDAO">
<property name="template" ref="jt"></property>
</bean>

```

```
<tx:annotation-driven />
```

```
</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>
```

Add-product.jsp:

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8"%>
```

```
<h3>Add a product</h3>
```

```
<form action="addProduct" method="POST">
```

```
NAME: <input name="name"><br>
```

```
PRICE: <input name="price"><br>
```

```
<input type="submit">
```

```
</form>
```

Index.jsp:

```
<html>
```

```
<body>
```

```
<h2>Hello World!</h2>
```

```
</body>
```