```
ProductController.java
package com.ecommerce.controller;
import java.util.List;
import\ or g. spring framework. beans. factory. annotation. Autowired;
import org.springframework.stereotype.Controller;
import\ org. spring framework. ui. Model Map;
import org.springframework.web.bind.annotation.*;
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 \ add Product (@Request Param \ String \ name, \ @Request Param \ float \ price) \ \{ \ public \ String \ add \ Product \ price) \ \{ \ public \ String \ price) \ \{ \ public \ price) \ \{ \ public \ public \ price) \ \{ \ public \ publi
                                                         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) {
                                                         eproduct DAO. delete Product (id);\\
                                                         return "delete-product-success"; // go to "delete-product-success.jsp"
```

```
}
        @RequestMapping(value = "/updateProduct", method = RequestMethod.POST)
        public String updateProduct(@RequestParam int id, @RequestParam float price) {
                eproductDAO.updateProduct(id,price);
                return "update-product-success"; // go to "update-product-success.jsp"
        }
        @RequestMapping(value = "/searchProduct", method = RequestMethod.POST)
        public String searchProduct(ModelMap map, @RequestParam String name) {
                List<EProduct> list = eproductDAO.searchProductsByName(name);
                map.addAttribute("listOfSearchedProducts", list);
                return "list-of-searched-products"; // go to "list-of-searched-products.jsp"
        }
}
EProductDAO.java
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;
            });
      public List<EProduct> searchProductsByName(String name) {
            return template.query("select * from eproduct where name like
'%"+name+"%'", 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));
System.out.println(e);
                        return e;
      public List<EProduct> searchProductsById(int Id) {
//
            return template.query("select * from eproduct where
id=?"+Id+"%", 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;
//
//
//
            });
//
//
      public void addProduct(String name, float price) {
            String insertSQL = "insert into eproduct(name, price)
values(?,?)";
            template.update(insertSQL, new Object[] {name, price});
```

```
// Delete a product
        public void deleteProduct(int id) {
                 String deleteSQL = "delete from eproduct where id=?";
                 template.update(deleteSQL, new Object[] { id });
        // Update a product price
                 public void updateProduct(int id, float price) {
                          String updateSQL = "update eproduct set price=? where
id=?";
                          template.update(updateSQL, new Object[] { price, id });
EProduct.java
package com.ecommerce;
import\ java.math. Big Decimal;
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;}
}
```

add-product.jsp

```
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>
delete-product.jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
      pageEncoding="UTF-8"%>
<h3>Delete a product</h3>
<form action="deleteProduct" method="POST">
      ID: <input name="id"><br>
      <input type=submit>
</form>
search-product.jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
    pageEncoding="UTF-8"%>
<form action="searchProduct" method="POST">
      NAME: <input name="name"><br>
      <input type=submit>
</form>
</html>
Update-product.jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
      pageEncoding="UTF-8"%>
<h3>update a product</h3>
<form action="updateProduct" method="POST">
      ID: <input name="id"><br>
      PRICE: <input name="price"><br>
      <input type=submit>
</form>
```

```
Added a new product successfully
```

```
delete-product-success.jsp
```

```
deleted successfully
```

```
index.jsp
<h3><a href="listProducts">List Products</a></h3>
<br><br><
<h3><a href="add-product.jsp">Add a Product</a></h3>
<br><br><br>>
<h3><a href="delete-product.jsp">Delete a Product</a></h3>
<h3><a href="update-product.jsp">update a Product</a></h3>
<br><br><br>>
<h3><a href="search-product.jsp">search a Product</a></h3>
List-of-searched-products.jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
   pageEncoding="UTF-8"%>
   <%@ taglib uri="http://www.springframework.org/tags/form"</pre>
prefix="form"%>
    <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>List of Searched Products</title>
</head>
<c:forEach var="product" items="${listOfSearchedProducts}">
   ${product.name}, ${product.price}, ${product.dateAdded}<br>>
</c:forEach>
</body>
</html>
list-products.jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
   pageEncoding="UTF-8"%>
   <%@ taglib uri="http://www.springframework.org/tags/form"</pre>
prefix="form"%>
```

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>

Update-product-success.jsp

```
updated successfully
```

```
main-servlet.xml
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
     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"</pre>
      class="org.springframework.web.servlet.view.InternalResourceViewResol
ver">
           property name="viewClass"
      value="org.springframework.web.servlet.view.JstlView"></property>
           cproperty name="prefix" value="/WEB-INF/view/">
           cproperty name="suffix" value=".jsp">
      </bean>
      <bean id="messageSource"</pre>
      class="org.springframework.context.support.ReloadableResourceBundleMe
ssageSource">
            property name="basename"
value="classpath:messages">
```

```
property name="defaultEncoding" value="UTF-8">
     </bean>
     <context:annotation-config />
     <context:component-scan</pre>
           base-package="com.ecommerce" />
     <context:component-scan</pre>
           base-package="com.ecommerce.dao" />
     <bean id="dataSource"</pre>
           class="org.apache.commons.dbcp.BasicDataSource" destroy-
method="close"
           p:driverClassName="${jdbc.driverClassName}"
           p:url="${idbc.databaseurl}" p:username="${idbc.username}"
           p:password="${jdbc.password}"></bean>
     <bean id="ds"</pre>
     class="org.springframework.jdbc.datasource.DriverManagerDataSource">
           property name="driverClassName"
                 value="com.mysql.jdbc.Driver">
           property name="url"
                 value="jdbc:mysql://localhost:3306/ecommerce">
           cproperty name="username" value="root">
           property name="password" value="ashishashish">
     </bean>
     <bean id="jt" class="org.springframework.jdbc.core.JdbcTemplate">
           property name="dataSource" ref="ds">
     </bean>
     <bean id="dao" class="com.ecommerce.dao.EProductDAO">
           cproperty 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"</pre>
     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>