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
      <artifactId>ecommerce</artifactId>
      <version>0.0.1-SNAPSHOT</version>
      <packaging>war</packaging>
      <name>ecommerce Maven Webapp</name>
      <!-- FIXME change it to the project's website -->
      <url>http://www.example.com</url>
cproperties>
    project.build.sourceEncoding>UTF-8/project.build.sourceEncoding>
    <org.springframework.version>3.1.1.RELEASE</org.springframework.version>
    <maven.compiler.source>1.8</maven.compiler.source>
    <maven.compiler.target>1.8</maven.compiler.target>
  </properties>
      <dependencies>
            <dependency>
                   <groupId>org.springframework
                   <artifactId>spring-core</artifactId>
                   <version>${org.springframework.version}</version>
            </dependency>
            <dependency>
                   <groupId>org.springframework
                   <artifactId>spring-expression</artifactId>
                   <version>${org.springframework.version}</version>
            </dependency>
            <dependency>
                   <groupId>org.springframework
                   <artifactId>spring-beans</artifactId>
                   <version>${org.springframework.version}</version>
            </dependency>
             <dependency>
                   <groupId>org.springframework
                   <artifactId>spring-context</artifactId>
                   <version>${org.springframework.version}</version>
            </dependency>
             <dependency>
                   <groupId>org.springframework
                   <artifactId>spring-context-support</artifactId>
                   <version>${org.springframework.version}</version>
            </dependency>
```

```
<dependency>
                  <groupId>org.springframework
                  <artifactId>spring-jdbc</artifactId>
                  <version>${org.springframework.version}</version>
            </dependency>
            <dependency>
                  <groupId>org.springframework
                  <artifactId>spring-orm</artifactId>
                  <version>${org.springframework.version}</version>
            </dependency>
            <dependency>
                  <groupId>org.springframework</groupId>
                  <artifactId>spring-web</artifactId>
                  <version>${org.springframework.version}</version>
            </dependency>
            <dependency>
                  <groupId>org.springframework
                  <artifactId>spring-webmvc</artifactId>
                  <version>${org.springframework.version}</version>
            </dependency>
            <dependency>
                  <groupId>javassist
                  <artifactId>javassist</artifactId>
                  <version>3.12.1.GA</version>
            </dependency>
            <dependency>
                  <groupId>taglibs
                  <artifactId>standard</artifactId>
                  <version>1.1.2
                  <scope>runtime</scope>
            </dependency>
            <dependency>
                  <groupId>commons-dbcp
                  <artifactId>commons-dbcp</artifactId>
                  <version>1.4</version>
            </dependency>
            <!--
      https://mvnrepository.com/artifact/jakarta.servlet.jsp/jakarta.servlet.jsp-api
-->
            <!--<dependency>
                  <groupId>jakarta.servlet
                  <artifactId>jakarta.servlet-api</artifactId>
                  <version>6.0.0</version>
            </dependency>-->
            <!-- https://mvnrepository.com/artifact/javax.servlet/javax.servlet-api
-->
            <dependency>
                  <groupId>javax.servlet
                  <artifactId>javax.servlet-api</artifactId>
                  <version>3.0.1
                  <scope>provided</scope>
            </dependency>
            <!--
```

```
https://mvnrepository.com/artifact/jakarta.servlet.jsp.jstl/jakarta.servlet.js
p.jstl-api -->
            <dependency>
                  <groupId>jakarta.servlet.jsp.jstl
                  <artifactId>jakarta.servlet.jsp.jstl-api</artifactId>
                  <version>3.0.0
            </dependency>
            <dependency>
                  <groupId>mysal
                  <artifactId>mysql-connector-java</artifactId>
                  <version>8.0.32
            </dependency>
            <dependency>
                  <groupId>javax.persistence
                  <artifactId>persistence-api</artifactId>
                  <version>1.0.2
                  <scope>provided</scope>
            </dependency>
            <dependency>
                  <groupId>junit
                  <artifactId>junit</artifactId>
                  <version>4.11</version>
                  <scope>test</scope>
            </dependency>
      </dependencies>
      <build>
            <finalName>ecommerce</finalName>
            <pluginManagement><!-- lock down plugins versions to avoid using Maven</pre>
                  defaults (may be moved to parent pom) -->
                  <plugins>
                        <plugin>
                              <artifactId>maven-clean-plugin</artifactId>
                              <version>3.1.0
                        </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
                        </plugin>
                        <plugin>
                              <artifactId>maven-compiler-plugin</artifactId>
                              <version>3.8.0
                        </plugin>
                        <plugin>
                              <artifactId>maven-surefire-plugin</artifactId>
                              <version>2.22.1
                        </plugin>
```

```
<plugin>
                               <artifactId>maven-war-plugin</artifactId>
                               <version>3.2.2
                         </plugin>
                         <plugin>
                               <artifactId>maven-install-plugin</artifactId>
                               <version>2.5.2</version>
                         </plugin>
                         <plugin>
                               <artifactId>maven-deploy-plugin</artifactId>
                               <version>2.8.2
                         </plugin>
                  </plugins>
            </pluginManagement>
      </build>
</project>
```

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.InternalResourceViewResolver">
             cproperty name="viewClass"
                   value="org.springframework.web.servlet.view.JstlView"></property>
             cproperty name="prefix" value="/WEB-INF/view/"></property>
             cproperty name="suffix" value=".jsp"></property>
      </bean>
      <bean id="messageSource"</pre>
      class="org.springframework.context.support.ReloadableResourceBundleMessageSour
ce">
             cyproperty name="basename" value="classpath:messages">
```

```
cproperty name="defaultEncoding" value="UTF-8"></property>
      </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="${jdbc.driverClassName}"
             p:url="${jdbc.databaseurl}" p:username="${jdbc.username}"
             p:password="${jdbc.password}"></bean>
      <bean id="ds"</pre>
             class="org.springframework.jdbc.datasource.DriverManagerDataSource">
             cproperty name="driverClassName"
                   value="com.mysql.jdbc.Driver">
             cproperty name="url"
                   value="jdbc:mysql://localhost:3306/ecommerce">//property>
             cproperty name="username" value="root"></property>
             cproperty name="password" value="#Maneesh123">
      </bean>
      <bean id="jt" class="org.springframework.jdbc.core.JdbcTemplate">
             cproperty name="dataSource" ref="ds"></property>
      </bean>
      <bean id="dao" class="com.ecommerce.dao.EProductDAO">
             cproperty name="template" ref="jt"></property>
      </bean>
      <tx:annotation-driven />
</beans>
```

List-products.jsp:

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
    <%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
    <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<!DOCTYPE html>
<html>
<head>
```

```
<meta charset="UTF-8">
<title>List Products</title>
</head>
<body>
 <c:forEach var="product" items="${listOfProducts}">
   ${product.name}, ${product.price}, ${product.dateAdded}<br>
 </c:forEach>
</body>
</html>
Index.jsp:
<h3><a href="listProducts">List Products</a></h3>
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;
               }
        });
}
```

}

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.EProduct;
import com.ecommerce.dao.EProductDAO;
@Controller
public class ProductController {
       @Autowired
       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"
}
```

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;}
```

}

OUTPUT:

