**Integration of Hibernate with Spring**

<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/maven-v4\_0\_0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>SpringHibernateWeb</groupId>

<artifactId>SpringHibernateWeb</artifactId>

<packaging>war</packaging>

<version>0.0.1-SNAPSHOT</version>

<name>SpringHibernateWeb Maven Webapp</name>

<url>http://maven.apache.org</url>

<repositories>

<repository>

<id>JBoss repository</id>

<url>http://repository.jboss.org/nexus/content/groups/public/</url>

</repository>

</repositories>

<properties>

<org.springframework.version>3.0.5.RELEASE</org.springframework.version>

</properties>

<dependencies>

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>3.8.1</version>

<scope>test</scope>

</dependency>

<dependency>

<groupId>org.hibernate.javax.persistence</groupId>

<artifactId>hibernate-jpa-2.1-api</artifactId>

<version>1.0.0.Final</version>

</dependency>

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-core</artifactId>

<version>${org.springframework.version}</version>

</dependency>

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<version>${org.springframework.version}</version>

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<version>${org.springframework.version}</version>

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<version>${org.springframework.version}</version>

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<groupId>org.springframework</groupId>

<artifactId>spring-webmvc</artifactId>

<version>${org.springframework.version}</version>

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<dependency>

<groupId>log4j</groupId>

<artifactId>log4j</artifactId>

<version>1.2.16</version>

<scope>runtime</scope>

</dependency>

<dependency>

<groupId>org.hibernate</groupId>

<artifactId>hibernate-core</artifactId>

<version>3.6.3.Final</version>

</dependency>

<dependency>

<groupId>javassist</groupId>

<artifactId>javassist</artifactId>

<version>3.12.1.GA</version>

</dependency>

<dependency>

<groupId>taglibs</groupId>

<artifactId>standard</artifactId>

<version>1.1.2</version>

<scope>runtime</scope>

</dependency>

<dependency>

<groupId>commons-dbcp</groupId>

<artifactId>commons-dbcp</artifactId>

<version>1.4</version>

</dependency>

<dependency>

<groupId>mysql</groupId>

<artifactId>mysql-connector-java</artifactId>

<version>5.1.9</version>

</dependency>

</dependencies>

<build>

<finalName>SpringHibernateWeb</finalName>

</build>

</project>

/\*!40101 SET @OLD\_CHARACTER\_SET\_CLIENT=@@CHARACTER\_SET\_CLIENT \*/;

/\*!40101 SET @OLD\_CHARACTER\_SET\_RESULTS=@@CHARACTER\_SET\_RESULTS \*/;

/\*!40101 SET @OLD\_COLLATION\_CONNECTION=@@COLLATION\_CONNECTION \*/;

/\*!40101 SET NAMES utf8 \*/;

/\*!40103 SET @OLD\_TIME\_ZONE=@@TIME\_ZONE \*/;

/\*!40103 SET TIME\_ZONE='+00:00' \*/;

/\*!40014 SET @OLD\_UNIQUE\_CHECKS=@@UNIQUE\_CHECKS, UNIQUE\_CHECKS=0 \*/;

/\*!40014 SET @OLD\_FOREIGN\_KEY\_CHECKS=@@FOREIGN\_KEY\_CHECKS, FOREIGN\_KEY\_CHECKS=0 \*/;

/\*!40101 SET @OLD\_SQL\_MODE=@@SQL\_MODE, SQL\_MODE='NO\_AUTO\_VALUE\_ON\_ZERO' \*/;

/\*!40111 SET @OLD\_SQL\_NOTES=@@SQL\_NOTES, SQL\_NOTES=0 \*/;

--

-- Table structure for table `eproduct`

--

DROP TABLE IF EXISTS `eproduct`;

/\*!40101 SET @saved\_cs\_client = @@character\_set\_client \*/;

/\*!40101 SET character\_set\_client = utf8 \*/;

CREATE TABLE `eproduct` (

`ID` bigint(20) NOT NULL AUTO\_INCREMENT,

`name` varchar(100) DEFAULT NULL,

`price` decimal(10,2) DEFAULT NULL,

`date\_added` timestamp NOT NULL DEFAULT CURRENT\_TIMESTAMP,

`parts\_hdd` varchar(10) DEFAULT NULL,

`parts\_cpu` varchar(10) DEFAULT NULL,

`parts\_ram` varchar(10) DEFAULT NULL,

PRIMARY KEY (`ID`)

) ENGINE=InnoDB AUTO\_INCREMENT=4 DEFAULT CHARSET=latin1;

/\*!40101 SET character\_set\_client = @saved\_cs\_client \*/;

--

-- Dumping data for table `eproduct`

--

LOCK TABLES `eproduct` WRITE;

/\*!40000 ALTER TABLE `eproduct` DISABLE KEYS \*/;

INSERT INTO `eproduct` VALUES (1,'HP Laptop ABC',21900.00,'2019-06-04 07:18:57','2 Gb HDD','AMD Phenom','4 Gb'),(2,'Acer Laptop ABC',23300.00,'2019-06-04 07:19:07','500 Gb HDD','Core-i7','4 Gb'),(3,'Lenovo Laptop ABC',33322.00,'2019-06-04 07:19:19','1 Tb HDD','Core-i7','8 Gb');

/\*!40000 ALTER TABLE `eproduct` ENABLE KEYS \*/;

UNLOCK TABLES;

/\*!40103 SET TIME\_ZONE=@OLD\_TIME\_ZONE \*/;

/\*!40101 SET SQL\_MODE=@OLD\_SQL\_MODE \*/;

/\*!40014 SET FOREIGN\_KEY\_CHECKS=@OLD\_FOREIGN\_KEY\_CHECKS \*/;

/\*!40014 SET UNIQUE\_CHECKS=@OLD\_UNIQUE\_CHECKS \*/;

/\*!40101 SET CHARACTER\_SET\_CLIENT=@OLD\_CHARACTER\_SET\_CLIENT \*/;

/\*!40101 SET CHARACTER\_SET\_RESULTS=@OLD\_CHARACTER\_SET\_RESULTS \*/;

/\*!40101 SET COLLATION\_CONNECTION=@OLD\_COLLATION\_CONNECTION \*/;

/\*!40111 SET SQL\_NOTES=@OLD\_SQL\_NOTES \*/;

-- Dump completed on 2019-06-07 10:05:19

package com.ecommerce.entity;

import java.math.BigDecimal;

import java.util.Date;

import javax.persistence.Column;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.Id;

import javax.persistence.Table;

@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;}

}

package com.ecommerce.dao;

import java.util.List;

import org.hibernate.SessionFactory;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.stereotype.Repository;

import org.springframework.stereotype.Service;

import org.springframework.transaction.annotation.Transactional;

import com.ecommerce.entity.EProductEntity;

*@Repository*

public class EProductDAO {

*@Autowired*

private SessionFactory sessionFactory;

*@SuppressWarnings*("unchecked")

public List<EProductEntity> getAllProducts() {

return this.sessionFactory.getCurrentSession().createQuery("from EProducts").list();

}

}

package com.ecommerce.Controller;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.stereotype.Controller;

import org.springframework.ui.ModelMap;

import org.springframework.validation.BindingResult;

import org.springframework.web.bind.annotation.ModelAttribute;

import org.springframework.web.bind.annotation.PathVariable;

import org.springframework.web.bind.annotation.RequestMapping;

import org.springframework.web.bind.annotation.RequestMethod;

import org.springframework.web.bind.annotation.RequestParam;

import com.ecommerce.entity.EProductEntity;

import com.ecommerce.service.EProductService;

*@Controller*

public class EProductController {

*@Autowired*

private EProductService eproductService;

*@*RequestMapping(value = "/productList", method = RequestMethod.GET)

public String listProducts(ModelMap map)

{

map.addAttribute("eproduct", new EProductEntity());

map.addAttribute("productList", eproductService.getAllProducts());

return "productList";

}

<?**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.xsd*

*http://www.springframework.org/schema/aop/ http://www.springframework.org/schema/aop/spring-aop.xsd*

*http://www.springframework.org/schema/context/ http://www.springframework.org/schema/context/spring-context.xsd*

*http://www.springframework.org/schema/jee/ http://www.springframework.org/schema/jee/spring-jee.xsd*

*http://www.springframework.org/schema/lang/ http://www.springframework.org/schema/lang/spring-lang.xsd*

*http://www.springframework.org/schema/tx/ http://www.springframework.org/schema/tx/spring-tx.xsd*

*http://www.springframework.org/schema/util/ http://www.springframework.org/schema/util/spring-util.xsd"*>

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

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

<**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**>

<**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**>

<**bean** id=*"eproductService"* class=*"com.ecommerce.service.EProductService"*></**bean**>

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

<**bean** id=*"transactionManager"*

class=*"org.springframework.orm.hibernate3.HibernateTransactionManager"*>

<**property** name=*"sessionFactory"* ref=*"sessionFactory"*></**property**>

</**bean**>

</**beans**>

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=sonikaSHETTY#17

<%@ **page** language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@**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"*%>

<!**DOCTYPE** html>

<**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.date\_added}</**td**>

</**tr**>

</**c:forEach**>

</**table**>

</**c:if**>

</**body**>

</**html**>

<%@ **page** language=*"java"* contentType=*"text/html; charset=ISO-8859-1"* pageEncoding=*"ISO-8859-1"*%>

<!**DOCTYPE** html>

<**html**>

<**head**>

<**meta** charset=*"ISO-8859-1"*>

<**title**>Insert title here</**title**>

</**head**>

<**body**>

<**h2**>Spring With Hibernate</**h2**>

<**a** href=*"/productList"*>Product List</**a**>

</**body**>

</**html**>

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

<!**DOCTYPE** hibernate-configuration PUBLIC

"-//Hibernate/Hibernate Configuration DTD//EN" " http://hibernate.sourceforge.net/hibernate-configuration-3.0.dtd">

<**hibernate-configuration**>

<**session-factory**>

<**mapping** class=*"com.ecommerce.entity.EProductEntity"*></**mapping**>

</**session-factory**>

</**hibernate-configuration**>

<!**DOCTYPE** web-app PUBLIC

"-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"

"http://java.sun.com/dtd/web-app\_2\_3.dtd" >

<**web-app**>

<**display-name**>Archetype Created Web Application</**display-name**>

<**welcome-file-list**>

<**welcome-file**>/WEB-INF/view/index.jsp</**welcome-file**>

</**welcome-file-list**>

<**servlet**>

<**servlet-name**>eproduct</**servlet-name**>

<**servlet-class**>

org.springframework.web.servlet.DispatcherServlet

</**servlet-class**>

<**load-on-startup**>1</**load-on-startup**>

</**servlet**>

<**servlet-mapping**>

<**servlet-name**>eproduct</**servlet-name**>

<**url-pattern**>/</**url-pattern**>

</**servlet-mapping**>

<**context-param**>

<**param-name**>contextConfigLocation</**param-name**>

<**param-value**>/WEB-INF/eproduct-servlet.xml</**param-value**>

</**context-param**>

<**listener**>

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

</**listener**>

</**web-app**>