**Integration of Hibernate With Spring**

**Index.jsp:**

|  |
| --- |
| <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> |

**EProductEntity class:**

|  |
| --- |
| 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;} |
|  | } |

**EProductDAO class:**

|  |
| --- |
| 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(); |
|  | } |
|  | } |

**EProductController class:**

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";

}

}

**Web.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.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> |