package com.ecommerce.controller;

import org.apache.log4j.Logger;

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.CustomEventPublisher;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

@Controller

public class MainController {

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

            public String customEvent(ModelMap *map*)

            {

                    String confFile = "main-servlet.xml";

                ApplicationContext context = new ClassPathXmlApplicationContext(confFile);

                CustomEventPublisher cvp =(CustomEventPublisher) context.getBean("customEventPublisher");

                 cvp.publish();

                 cvp.publish();

                return "customEvent";

            }

}

package com.ecommerce;

import org.springframework.context.ApplicationEvent;

public class CustomEvent extends ApplicationEvent{

        public CustomEvent(Object *source*) {

      super(*source*);

   }

   public String toString(){

      return "This is a custom event";

   }

}

package com.ecommerce;

import org.springframework.context.ApplicationListener;

public class CustomEventListener implements ApplicationListener<CustomEvent> {

   public *void* onApplicationEvent(CustomEvent *event*) {

      System.out.println(*event*.toString());

   }

}

package com.ecommerce;

import org.springframework.context.ApplicationEventPublisher;

import org.springframework.context.ApplicationEventPublisherAware;

public class CustomEventPublisher implements ApplicationEventPublisherAware {

   private ApplicationEventPublisher publisher;

   public *void* setApplicationEventPublisher (ApplicationEventPublisher *publisher*) {

      this.publisher = *publisher*;

   }

   public *void* publish() {

      CustomEvent ce = new CustomEvent(this);

      publisher.publishEvent(ce);

   }

}

package com.ecommerce;

import org.springframework.context.ApplicationListener;

import org.springframework.context.event.ContextStartedEvent;

public class StartEventHandler implements ApplicationListener<ContextStartedEvent>{

           public *void* onApplicationEvent(ContextStartedEvent *event*) {

              System.out.println("ContextStartedEvent Received");

           }

}

package com.ecommerce;

import org.springframework.context.ApplicationListener;

import org.springframework.context.event.ContextStoppedEvent;

public class StopEventHandler implements ApplicationListener<ContextStoppedEvent>{

           public *void* onApplicationEvent(ContextStoppedEvent *event*) {

              System.out.println("ContextStoppedEvent Received");

           }

}

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

    pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>Custom Event</title>

</head>

<body>

   Custom Event has been generated in the Java Console.

</body>

</html>

<html>

<body>

<h2>Spring Application</h2>

<a href="customevent">Custom Event Handling</a>

</body>

</html>

<?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">

    <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 = "startEventHandler" class = "com.ecommerce.beans.StartEventHandler"/>

   <bean id = "stopEventHandler" class = "com.ecommerce.beans.StopEventHandler"/>

    <bean id = "customEventListener" class = "com.ecommerce.beans.CustomEventListener"/>

    <bean id = "customEventPublisher" class = "com.ecommerce.beans.CustomEventPublisher"/>

    <tx:annotation-driven />

</beans>

<?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>

    <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>

    <context-param>

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

        <param-value>/WEB-INF/main-servlet.xml</param-value>

    </context-param>

    <listener>

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

    </listener>

</web-app>

<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>SpringSetup</groupId>

  <artifactId>SpringSetup</artifactId>

  <packaging>war</packaging>

  <version>0.0.1-SNAPSHOT</version>

  <name>SpringSetup Maven Webapp</name>

  <url>http://maven.apache.org</url>

   <properties>

    <org.springframework.version>5.1.6.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.springframework</groupId>

      <artifactId>spring-core</artifactId>

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

    </dependency>

    <dependency>

      <groupId>org.springframework</groupId>

      <artifactId>spring-expression</artifactId>

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

    </dependency>

    <dependency>

      <groupId>org.springframework</groupId>

      <artifactId>spring-beans</artifactId>

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

    </dependency>

    <dependency>

      <groupId>org.springframework</groupId>

      <artifactId>spring-context</artifactId>

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

    </dependency>

    <dependency>

      <groupId>org.springframework</groupId>

      <artifactId>spring-context-support</artifactId>

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

    </dependency>

    <dependency>

      <groupId>org.springframework</groupId>

      <artifactId>spring-jdbc</artifactId>

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

    </dependency>

    <dependency>

      <groupId>org.springframework</groupId>

      <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</groupId>

      <artifactId>spring-webmvc</artifactId>

      <version>${org.springframework.version}</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>javax.servlet</groupId>

<artifactId>jstl</artifactId>

<version>1.2</version>

</dependency>

<dependency>

<groupId>javax.servlet</groupId>

<artifactId>jstl</artifactId>

 <version>1.2</version>

</dependency>

<dependency>

<groupId>javax.persistence</groupId>

<artifactId>persistence-api</artifactId>

<version>1.0.2</version>

<scope>provided</scope>

 </dependency>

  </dependencies>

  <build>

    <finalName>SpringDefaultSetup</finalName>

  </build>

</project>