

```
<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>SpringSetup</finalName>
```

```
</build>
```

```
</project>
```

```
package com.ecommerce.beans;
```

```
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.beans;
```

```
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");
```

```
    }
```

```
}
```

```
package com.ecommerce.beans;
```

```
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.beans;

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;

public class CustomEventListener implements ApplicationListener<CustomEvent> {

    public void onApplicationEvent(CustomEvent event) {
        System.out.println(event.toString());
    }
}

```

```

    }
}

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 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";
}

}

<?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>
```

```
<html>
```

```
<body>
```

```
<h2>Spring Application</h2>
```

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

```
</body>
```

```
</html>
```

```
<%@ 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>
```

```
<?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>
```