Default and Custom Event Handling.

Pom.xml:

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>

```xml
            <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>
```

```xml
    <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>
```

```xml
<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>
```

```xml
<scope>provided</scope>
 </dependency>



 </dependencies>
 <build>
   <finalName>SpringSetup</finalName>
 </build>
</project>
```

STARTEVENTHANDLER.JAVA:

```java
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");
    }
}
```

STOPEVENTHANDLER:

```java
package com.ecommerce.beans;


import org.springframework.context.ApplicationListener;
import org.springframework.context.event.ContextStoppedEvent;



public class StopEventHandler implements
ApplicationListener<ContextStoppedEvent>{
```

```java
        public void onApplicationEvent(ContextStoppedEvent event) {

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

        }
}
```

CUSTOMEVENT:

```java
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";

  }
}
```

CUSTOMEVENTPUBLISHER:

```java
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) {
```

```java
      this.publisher = publisher;
   }
   public void publish() {
      CustomEvent ce = new CustomEvent(this);
      publisher.publishEvent(ce);
   }
}
```

CUSTOMEVENTLIST:

```java
package com.ecommerce;


import org.springframework.context.ApplicationListener;


public class CustomEventListener implements
ApplicationListener<CustomEvent> {


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

MAINCONTROLLER:

```java
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;
```

```java
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";

    }


}
```
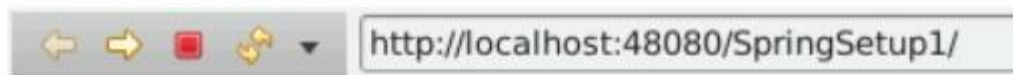
OUTPUT:

http://localhost:48080/SpringSetup1/

Spring Application

Custom Event Handling