

CREATE A JAVA PROGRAM TO DEMONSTRATE DEFAULT AND CUSTOM EVENTHANDLING.

StartEventHandler.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");

    }
}
```

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";
    }
}
```

CustomEventListener.java

```
package com.ecommerce.beans;

import org.springframework.context.ApplicationListener;

public class CustomEventListener implements
ApplicationListener<CustomEvent> {

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

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

```

StopEventHandler.java

```

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");
    }
}

```

MainController

```

package com.ecommerce.controller;

import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;

import org.springframework.stereotype.Controller;

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

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

import com.ecommerce.beans.CustomEventPublisher;

```

```
@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";
    }
}
```

```
}
```

coustmEvent.jsp

```
<%@ 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>
```

Index.jsp

```
<html>
<body>
<h2>Spring Application</h2>

<a href="customEvent.jsp">Custom Event Handling</a>
</body>
</html>
```

Main-servlet.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-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>
```

Web.xml

```
<!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>
</web-app>
```

OUTPUT :

