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2009-03-19

ESB学习笔记(Spring Integration实战)

ESB学习笔记(Spring Integration实战)

介绍

Spring Integration是Spring公司的一套ESB框架。

前面ESB介绍中我也做了一定了解。我们来看一下它主要做什么的。

Spring Integration is motivated by the following goals:

- Provide a simple model for implementing complex enterprise integration solutions.(暂时相信它吧,谁让它搞个Spring框架,的确给人方便一把。)
- Facilitate asynchronous, message-driven behavior within a Spring-based application.(这个不谈, Spring框架就是它玩的。再说这一点与它竞争只有Mule 啦。)
- Promote intuitive, incremental adoption for existing Spring users. (也暂时相信它,别人都只说给用户提升。)

Spring Integration is guided by the following principles:

- Components should be loosely coupled for modularity and testability. (松耦合,好像很早很早就听说过。像做梦一样)
- The framework should enforce separation of concerns between business logic and integration logic. (分开程度要取决业务 吧。)
- Extension points should be abstract in nature but within well-defined boundaries to promote reuse and portability. (美妙现实世界产品)
- 源码下载打开它的网页,http://www.springsource.org/spring-integration 主页上也没有东东,但有个下源代码的地方,svn开工啦。

Java代码 🧓

1. svn co https://src.springframework.org/svn/spring-integration/trunk springintegration

Java代码

1. svn co https://src.springframework.org/svn/spring-integration/trunk springintegration

下载完后,进入build-spring-integration目录执行ant.完成后,导入到Eclipse中。

导入项目会有很多, 先添加时会有报错。这里需要添加一个变量。

IVY_CACHE = < checkout-dir > /ivy-cache/repository

这里要注意的事,也是我遇到问题。执行ant时,他会去下载lvy,如果你本身在%ANT_HOME%lib里有lvy.jar包,由于我暂时找不到如何处理,我就直接将Ant中的jar删除掉后就没有问题。

另外在ant过程中,测试步骤可能会在file模块中出现问题,可以将相关test类中代码注释掉。

• HelloWorld源码分析在samples项目中,打开helloworld包里面有三个文件。

Java代码 🧓

```
1.
      package org.springframework.integration.samples.helloworld;
2.
3.
       * @author Mark Fisher
4
5.
6.
      public class HelloService {
7.
          public String sayHello(String name) {
8.
               return "Hello " + name;
9.
10.
11.
```

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```
12. }
```

Java代码

```
1.
      package org.springframework.integration.samples.helloworld;
2.
3.
       * @author Mark Fisher
4.
5.
      public class HelloService {
6.
7.
8.
               public String sayHello(String name) {
9.
                        return "Hello " + name;
10.
               }
11.
      }
12.
```

helloworldDemo.xml

Xm1代码 🧓

```
<?xml version="1.0" encoding="UTF-8"?>
1.
      <beans:beans xmlns="http://www.springframework.org/schema/integration"</pre>
2.
3.
           xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4.
           xmlns:beans="http://www.springframework.org/schema/beans"
5.
           xsi:schemaLocation="http://www.springframework.org/schema/beans
6.
                   http://www.springframework.org/schema/beans/spring-beans-2.5.xsd
7.
                   http://www.springframework.org/schema/integration
                   http://www.springframework.org/schema/integration/spring-integration-1.0.xsd">
8.
9.
10.
           <channel id="inputChannel"/>
11.
           <channel id="outputChannel">
12.
13.
               <queue capacity="10"/>
14.
           </channel>
15.
           <service-activator input-channel="inputChannel"</pre>
16.
                                output-channel="outputChannel"
17.
18.
                                ref="helloService"
19.
                                method="sayHello"/>
20.
           <beans:bean id="helloService" class="org.springframework.integration.samples.helloworld.Hell</pre>
21.
      oService"/>
22.
      </beans:beans>
```

Xm1代码

```
1.
      <?xml version="1.0" encoding="UTF-8"?>
      <beans:beans xmlns="http://www.springframework.org/schema/integration"</pre>
 2.
               xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 3.
               xmlns:beans="http://www.springframework.org/schema/beans"
 4.
 5.
               xsi:schemaLocation="http://www.springframework.org/schema/beans
 6.
                                 http://www.springframework.org/schema/beans/spring-beans-2.5.xsd
 7.
                                 http://www.springframework.org/schema/integration
 8.
                                 http://www.springframework.org/schema/integration/spring-integration-1.
      0.xsd">
 9.
10.
               <channel id="inputChannel"/>
11.
12.
               <channel id="outputChannel">
13.
                        <queue capacity="10"/>
14.
               </channel>
15.
16.
               <service-activator input-channel="inputChannel"</pre>
17.
                                    output-channel="outputChannel"
18.
                                    ref="helloService"
19.
                                    method="sayHello"/>
20.
```

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- WPF实现RichTextBox插入图片 及调整行距





HelloWorldDemo.java

Java代码 🧓

```
1.
      package org.springframework.integration.samples.helloworld;
 2.
 3.
      import org.springframework.context.support.AbstractApplicationContext;
 4.
      import org.springframework.context.support.ClassPathXmlApplicationContext;
 5.
      import org.springframework.integration.channel.BeanFactoryChannelResolver;
      import org.springframework.integration.channel.ChannelResolver;
 6.
      import org.springframework.integration.channel.PollableChannel;
 7.
 8.
      import org.springframework.integration.core.MessageChannel;
 9.
      import org.springframework.integration.message.StringMessage;
10.
11.
12.
       * Demonstrates a basic message endpoint.
13.
14.
       * @author Mark Fisher
       */
15.
16.
      public class HelloWorldDemo {
17.
18.
          public static void main(String[] args) {
19.
               AbstractApplicationContext context = new ClassPathXmlApplicationContext("helloWorldDemo.
      xml", HelloWorldDemo.class);
               ChannelResolver channelResolver = new BeanFactoryChannelResolver(context);
20.
21.
               MessageChannel inputChannel = channelResolver.resolveChannelName("inputChannel");
22.
               PollableChannel outputChannel = (PollableChannel) channelResolver.resolveChannelName("ou
      tputChannel");
23.
               inputChannel.send(new StringMessage("World"));
24.
               System.out.println(outputChannel.receive(0).getPayload());
25
               context.stop();
26.
          }
27.
28.
      }
```

Java代码

```
package org.springframework.integration.samples.helloworld;
 1.
 2.
      import org.springframework.context.support.AbstractApplicationContext;
 3.
      import org.springframework.context.support.ClassPathXmlApplicationContext;
 4.
      import org.springframework.integration.channel.BeanFactoryChannelResolver;
      import org.springframework.integration.channel.ChannelResolver;
 6.
 7.
      import org.springframework.integration.channel.PollableChannel;
 8.
      import org.springframework.integration.core.MessageChannel;
 9.
      import org.springframework.integration.message.StringMessage;
10.
11.
12.
       * Demonstrates a basic message endpoint.
13.
14.
       * @author Mark Fisher
15.
16.
      public class HelloWorldDemo {
17.
18.
               public static void main(String[] args) {
19.
                       AbstractApplicationContext context = new ClassPathXmlApplicationContext("hellow
      orldDemo.xml", HelloWorldDemo.class);
20.
                       ChannelResolver channelResolver = new BeanFactoryChannelResolver(context);
21.
                       MessageChannel inputChannel = channelResolver.resolveChannelName("inputChannel"
      );
22.
                       PollableChannel outputChannel = (PollableChannel) channelResolver.resolveChannel
      Name("outputChannel");
```

```
inputChannel.send(new StringMessage("World"));

System.out.println(outputChannel.receive(0).getPayload());

context.stop();

}

27.

28. }
```

• Cafe源码分析 Cafe示例描述的是星巴克的订单处理故事。

其示例描述在: http://www.enterpriseintegrationpatterns.com/ramblings/18 starbucks.html

这里简单描述一下, 以免大家看英文太累

文章讲在星巴克喝咖啡时,收银员可能只有一个,而冲咖啡员工会有多个,如何让收银员产生订单异步发送给冲咖啡员工。并且冲咖啡员工可能是竞争上岗的,就当他们是计件工吧。

这里要考虑问题:

- 1,冲咖啡员工使用不同设备,不同咖啡冲调时间可能不同。
- 2、冲咖啡员工可能会将相同类型的咖啡同时一起冲调。

星巴克如何处理这个问题?

就当他解决了这个问题,它是如何把每个咖啡又送回给每个客户呢?当然,星巴克采用"标识关系模式",将每个咖啡杯上标上名称,并通过叫喊方式。

但并不是每天都是美好的,总有出错的时候。例如,收银员无法支付?冲调一杯你不喜欢的咖啡,你要换一杯?冲咖啡的设备坏了,星巴克要退你钱...这些异常情况如何处理。

因此就会有以下三种方式异常处理:

- 1,关闭交易,什么都不做。
- 2,重做,重新发起行为。
- 3,修正行为,相当于退钱这种行为。

因此,这里这篇文章后面讨论一下两阶段提交为什么不适合星巴克,如果你让收银员、冲咖啡员工,买单的人需要在一个"事务"中,交易所有完成后,再进行下一个业务。估计星巴克会马上倒闭啦。因此星巴克采用"Conversation pattern"模式。

好啦,业务了解清楚,我们再来看一下完整XML文件。在这里我没有采用示例详细的xml方式,而没有采用annotation方式。

Xm1代码 🧓

```
<?xml version="1.0" encoding="UTF-8"?>
 1.
      <beans:beans xmlns="http://www.springframework.org/schema/integration"</pre>
 2.
 3.
          xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
          xmlns:beans="http://www.springframework.org/schema/beans"
 4.
          xmlns:stream="http://www.springframework.org/schema/integration/stream"
 5.
          xsi:schemaLocation="http://www.springframework.org/schema/beans
 6.
 7.
                   http://www.springframework.org/schema/beans/spring-beans-2.5.xsd
                   http://www.springframework.org/schema/integration
 8.
 9.
                   http://www.springframework.org/schema/integration/spring-integration-1.0.xsd
10.
                   http://www.springframework.org/schema/integration/stream
11.
                   http://www.springframework.org/schema/integration/stream/spring-integration-stream-1
      .0.xsd">
12.
13.
          <gateway id="cafe" service-interface="org.springframework.integration.samples.cafe.Cafe"/>
14.
           <channel id="orders"/>
15.
           <splitter input-channel="orders" ref="orderSplitter" method="split" output-channel="drinks"</pre>
16.
17.
          <channel id="drinks"/>
18.
           <router input-channel="drinks" ref="drinkRouter" method="resolveOrderItemChannel"/>
19.
20.
21.
          <channel id="coldDrinks">
               <queue capacity="10"/>
22.
23.
           </channel>
24.
           <service-activator input-channel="coldDrinks" ref="barista"</pre>
25.
                               method="prepareColdDrink" output-channel="preparedDrinks"/>
26.
          <channel id="hotDrinks">
27.
28.
               <queue capacity="10"/>
29.
           </channel>
30.
           <service-activator input-channel="hotDrinks" ref="barista"</pre>
```

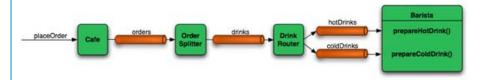
```
31.
                                method="prepareHotDrink" output-channel="preparedDrinks"/>
32.
           <channel id="preparedDrinks"/>
33.
           <aggregator input-channel="preparedDrinks" ref="waiter"</pre>
34.
35.
                        method="prepareDelivery" output-channel="deliveries"/>
36.
37.
           <stream:stdout-channel-adapter id="deliveries"/>
38.
39.
           <beans:bean id="orderSplitter"</pre>
40.
                        class="org.springframework.integration.samples.cafe.xml.OrderSplitter"/>
41.
           <beans:bean id="drinkRouter"</pre>
42.
43.
                        class="org.springframework.integration.samples.cafe.xml.DrinkRouter"/>
44.
45.
           <beans:bean id="barista" class="org.springframework.integration.samples.cafe.xml.Barista"/>
46.
           <beans:bean id="waiter" class="org.springframework.integration.samples.cafe.xml.Waiter"/>
47.
48.
49.
           <poller id="poller" default="true">
50.
               <interval-trigger interval="1000"/>
51.
           </poller>
52.
53.
      </beans:beans>
```

Xm1代码

```
<?xml version="1.0" encoding="UTF-8"?>
 1.
      <beans:beans xmlns="http://www.springframework.org/schema/integration"</pre>
 3.
          xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
          xmlns:beans="http://www.springframework.org/schema/beans"
 4.
 5.
          xmlns:stream="http://www.springframework.org/schema/integration/stream"
          xsi:schemaLocation="http://www.springframework.org/schema/beans
 6.
 7.
                   http://www.springframework.org/schema/beans/spring-beans-2.5.xsd
                   http://www.springframework.org/schema/integration
 8.
 9.
                   http://www.springframework.org/schema/integration/spring-integration-1.0.xsd
10.
                   http://www.springframework.org/schema/integration/stream
11.
                   http://www.springframework.org/schema/integration/stream/spring-integration-stream-1
      .0.xsd">
12.
13.
           <gateway id="cafe" service-interface="org.springframework.integration.samples.cafe.Cafe"/>
14.
           <channel id="orders"/>
15.
           <splitter input-channel="orders" ref="orderSplitter" method="split" output-channel="drinks"</pre>
16.
      />
17.
          <channel id="drinks"/>
18.
19.
           <router input-channel="drinks" ref="drinkRouter" method="resolveOrderItemChannel"/>
20.
21.
           <channel id="coldDrinks">
22.
               <queue capacity="10"/>
23
           </channel>
24.
           <service-activator input-channel="coldDrinks" ref="barista"</pre>
25.
                               method="prepareColdDrink" output-channel="preparedDrinks"/>
26.
           <channel id="hotDrinks">
27.
28.
               <queue capacity="10"/>
29.
           </channel>
           <service-activator input-channel="hotDrinks" ref="barista"</pre>
30.
31.
                               method="prepareHotDrink" output-channel="preparedDrinks"/>
32.
           <channel id="preparedDrinks"/>
33.
34.
           <aggregator input-channel="preparedDrinks" ref="waiter"</pre>
                        method="prepareDelivery" output-channel="deliveries"/>
35.
36.
           <stream:stdout-channel-adapter id="deliveries"/>
37.
```

```
38.
39.
           <beans:bean id="orderSplitter"</pre>
40
                        class="org.springframework.integration.samples.cafe.xml.OrderSplitter"/>
41.
42.
           <beans:bean id="drinkRouter"</pre>
43.
                        class="org.springframework.integration.samples.cafe.xml.DrinkRouter"/>
44.
45.
           <beans:bean id="barista" class="org.springframework.integration.samples.cafe.xml.Barista"/>
46.
           <beans:bean id="waiter" class="org.springframework.integration.samples.cafe.xml.Waiter"/>
47.
48.
           <poller id="poller" default="true">
49.
50.
               <interval-trigger interval="1000"/>
           </poller>
51.
52.
53.
      </beans:beans>
```

以下是参考文档中的示例描述图:



CafeDemo代码创建了订单。这家咖啡店有两种饮料,一种是热的,一种是冷的,消息将这订单包装到一个"orders"的channel(频 道)。一个endpoint侦听到订单频道并根据订单情况进行分开处理。

完成分开处理后,程序交给DrinksRouter经过drink频道。而DrinkRouter一个职责就是将订单内容中的热咖啡和冷咖啡交给不同的channel处理。

Xm1代码 🧓

```
1. <gateway id="cafe" service-interface="org.springframework.integration.samples.cafe.Cafe"/>
```

Xm1代码

```
1. <gateway id="cafe" service-interface="org.springframework.integration.samples.cafe.Cafe"/>
```

这里Gateway主要是根据接口生成代理类。

Java代码 🧓

```
Cafe cafe = (Cafe) context.getBean("cafe");
1.
                      DrinkOrder order = new DrinkOrder();
2.
3.
                      Drink hotDoubleLatte = new Drink(DrinkType.LATTE, 2, false);
4.
                      Drink icedTripleMocha = new Drink(DrinkType.MOCHA, 3, true);
                      order.addDrink(hotDoubleLatte);
5.
6.
                      order.addDrink(icedTripleMocha);
                      for (int i = 0; i < 100; i++) {
7.
8.
                               cafe.placeOrder(order);
9.
                      }
```

Java代码

```
Cafe cafe = (Cafe) context.getBean("cafe");
2.
                      DrinkOrder order = new DrinkOrder();
                      Drink hotDoubleLatte = new Drink(DrinkType.LATTE, 2, false);
3.
4.
                      Drink icedTripleMocha = new Drink(DrinkType.MOCHA, 3, true);
5.
                      order.addDrink(hotDoubleLatte);
                      order.addDrink(icedTripleMocha);
6.
7.
                      for (int i = 0; i < 100; i++) {
8.
                               cafe.placeOrder(order);
9.
                      }
```

Java代码 🧓

```
1.
     @MessageEndpoint(input="orders", output="drinks")
2.
     public class OrderSplitter {
3.
4.
             @Splitter
5.
             public List<Drink> split(Message<DrinkOrder> orderMessage) {
6.
                      return orderMessage.getPayload().getDrinks();
7.
              }
8.
9.
     }
```

Java代码

```
@MessageEndpoint(input="orders", output="drinks")
1.
2.
     public class OrderSplitter {
3.
              @Splitter
4.
5.
              public List<Drink> split(Message<DrinkOrder> orderMessage) {
6.
                      return orderMessage.getPayload().getDrinks();
7.
             }
8.
9.
     }
```

Java代码 🧓

```
@MessageEndpoint(input="drinks")
1.
     public class DrinkRouter {
2.
3.
4.
              @Router
5.
              public String resolveDrinkChannel(Drink drink) {
                      return (drink.isIced()) ? "coldDrinks" : "hotDrinks";
6.
7.
              }
8.
9.
     }
```

Java代码

Xm1代码 🧓

Xm1代码

```
4.
   5.
        <handler-endpoint handler="hotBarista" input-channel="hotDrinks"</pre>
   6.
               method="prepareHotDrink">
        </handler-endpoint>
   7.
 Java代码 🧓
        public void prepareColdDrink(Message<Drink> drinkMessage) {
                       Drink drink = drinkMessage.getPayload();
   2.
                       //no changes to the rest of the code
   3.
               }
   4.
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20:44 浏览 (1678) <u>评论</u> (0) 分类: <u>camel</u> <u>相关推荐</u>
  评论
  发表评论
         表情图标
                       字体颜色: □□
                                      字体大小: □□
                                                          对齐: □□
                        提示: 选择您需要装饰的文字, 按上列按钮即可添加上相应的标签
                                          您还没有登录,请登录后发表评论(快捷键 Alt+S / Ctrl+Enter)
```