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Listener (Receiver or Subscriber)

Spring JMS with Websphere MQ Listener (Receiver or Subscriber)

Posted on December 11, 2014 by Arulkumaran Kumaraswamipillai — No
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This is the continuation [Spring JMS with Websphere MQ](#)

Step 1: Write a listener class to receive the message by invoking the `onMessage(Message message)` method.

```
1 package com.myapp.service.impl;
2
3 import javax.jms.Message;
4 import javax.jms.MessageListener;
5 import javax.jms.TextMessage;
6
7 import org.slf4j.Logger;
8 import org.slf4j.LoggerFactory;
9 import org.springframework.stereotype.Component;
```

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```

10
11 @Component
12 // @Transactional
13 public class MyAppListener implements MessageListener {
14 {
15     private static Logger LOG = LoggerFactory.getLogger(MyAppListener.class);
16
17     @Override
18     public void onMessage(Message message) {
19         LOG.info("Entered .....");
20
21         if (message instanceof TextMessage) {
22             try {
23                 String msg = ((TextMessage) message).getText();
24                 LOG.debug("Message contents: {}", msg);
25                 System.out.println(msg);
26             } catch (Exception e) {
27                 LOG.error("Error processing the message: {}", e.getMessage());
28             }
29         }
30     }
31 }
32 }
33 }
34 }
35 }
36 }
37 }
38 }
39 }
40 }
41 }

```

Step 2 : Configure the Spring container and bootstrap the *MyListener* to the container. You can set up multiple consumers to run concurrently in multiple threads. This basically involves extending the class *MyAppJmsTemplateConfig* defined in part -2.

```

1 package com.myapp.jms;
2
3 import java.io.IOException;
4
5 import javax.annotation.Resource;
6 import javax.jms.ConnectionFactory;
7 import javax.jms.JMSException;
8
9 import org.springframework.beans.factory.annotation.Autowired;
10 import org.springframework.context.annotation.Bean;
11 import org.springframework.context.annotation.Configuration;
12 import org.springframework.jms.core.JmsTemplate;
13
14 @Configuration
15 @ComponentScan(basePackageClasses = MyAppListener.class)
16 {
17     @Bean
18     JmsTemplate jmsTemplate() {
19         JmsTemplate jmsTemplate = new JmsTemplate();
20         jmsTemplate.setConnectionFactory(connectionFactory());
21         return jmsTemplate;
22     }
23 }

```

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```

22 })
23 public class MyAppJmsTemplateConfig {
24
25     @Value("${my.queue}")
26     private String myAppQueueName;
27
28     @Resource (name = "internalJmsConnectionFactory")
29     private ConnectionFactory connectionFactory;
30
31     @Resource
32     private MyAppListener myAppListener;
33
34     private int maxConsumers = 3; //3 concurrent co
35
36     @Bean(name = "myAppJmsTemplate")
37     public JmsTemplate myAppJmsTemplate() throws JM
38
39     JmsTemplate jmsTemplate = new JmsTemplate(conn
40     jmsTemplate.setExplicitQosEnabled(true);
41     jmsTemplate.setDefaultDestinationName(myAppQue
42     return jmsTemplate;
43 }
44
45 /**
46  * Sets up the JMS MessageListener
47  *
48  * @return
49  */
50 @Bean
51 public DefaultMessageListenerContainer myApp
52 {
53     DefaultMessageListenerContainer listener
54     listenerContainer.setConnectionFactory(i
55     listenerContainer.setDestinationName(myA
56     listenerContainer.setMessageListener(myA
57     listenerContainer.setMaxConcurrentConsum
58     listenerContainer.setSessionTransacted(t
59     return listenerContainer;
60 }
61 }
62

```

Refer to the **myAppListenerContainer()** method to bind the Spring listener container to the listener you defined earlier itself.

Step 3: Finally, the JUnit test class that waits for 10 minutes. In other words, waiting for the **onMessage(...)** method to be kicked off asynchronously when a message arrives on the queue.

```

1 package com.myapp.service.impl;
2
3 import org.junit.Test;
4 import org.junit.runner.RunWith;
5 import org.springframework.test.context.ContextC
6 import org.springframework.test.context.junit4.S
7

```

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```
8 @RunWith(SpringJUnit4ClassRunner.class)
9 @ContextConfiguration(locations = "classpath:META-INF/spring-test.xml")
10 public class MyAppListenerIntegrationTest
11 {
12     @Test
13     public void testOnMessage() throws InterruptedException
14     {
15         Thread.sleep(300000);
16     }
17 }
```

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