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```
<bean id="serverProperties" class="org.springframework.beans.factory.config.Properties"</pre>
                   13
14
                   cproperty name="placeholderPrefix" value="${applicationProperties."/>
15
                   cproperty name="locations">
                   t>
                           <value>classpath:/application.properties</value>
                   </list>
18
19
               </property>
                   cproperty name="ignoreResourceNotFound" value="true"/>
20
            </bean>
            <!-- A JMS connection factory for ActiveMQ -->
            <bean id="connectionFactory" class="org.apache.activemq.ActiveMQConnectionFactory"</pre>
24
                   p:brokerURL="${applicationProperties.broker.url}" />
26
27
28
           <!-- A destination in ActiveMQ -->
29
            <bean id="destination" class="org.apache.activemq.command.ActiveMQQueue">
                   <constructor-arg value="${applicationProperties.broker.queue}" />
30
            </bean>
33
            <!-- A cached connection to wrap the ActiveMQ connection -->
34
            <bean id="cachedConnectionFactory"</pre>
35
                   class="org.springframework.jms.connection.CachingConnectionFactory"
36
                   p:targetConnectionFactory-ref="connectionFactory" p:sessionCacheSize="10'
37
38
            <!-- A JmsTemplate instance that uses the cached connection and destination -->
39
            <bean id="jmsTemplate" class="org.springframework.jms.core.JmsTemplate"</pre>
                   p:connectionFactory-ref="cachedConnectionFactory"
40
41
                   p:defaultDestination-ref="destination" />
42
43
   </beans>
ActiveMQ - application-context.xml hosted with ♥ by GitHub
                                                                                  view raw
```

The Object/Messages are created in the main StartDemo.java class StartDemo.java

```
package com.cor.demo.jms;
    import java.io.Serializable;
   import org.springframework.beans.factory.BeanFactory;
   import org.springframework.context.ApplicationContext;
    import org.springframework.context.support.ClassPathXmlApplicationContext;
9 import com.cor.demo.jms.dispatcher.MessageDispatcher;
10
11 /**
^{12} ^{*} Just a very simple template demo that will send a single Object Message to the JMS Broken
13 * Queue name defined in application.properties file. This is just for simple throwaway te
    ^{st} purposes - designed as a starting point to develop on a case by case basis.
14
15 */
16 public class StartDemo {
18
    * @param args
19
20
21
        public static void main(String[] args) {
22
23
            // Load spring config
24
            ApplicationContext appContext = new ClassPathXmlApplicationContext(new String[] -
25
            BeanFactory factory = (BeanFactory) appContext;
27
            // Send Message
28
            MessageDispatcher dispatcher = (MessageDispatcher) factory.getBean("messageDispat
29
            dispatcher.sendMessageObject(getTestMessage());
30
        }
31
32
33 * Generates the test message - overwrite with your own message.
34
    \ensuremath{^*} \ensuremath{\text{\textit{Qreturn}}} 
 The object message to be sent to the JMS Queue
35
36
        private static Serializable getTestMessage() {
37
38
            return "MY TEST MESSAGE";
```



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```
39
       }
40 }
ActiveMQ - StarDemo.java hosted with ♥ by GitHub
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```

Communication with the server is abstracted away into a Dispatcher object.

Message Dispatcher.java

```
package com.cor.demo.jms.dispatcher;
   import java.io.Serializable;
   import javax.jms.JMSException;
6 import javax.jms.Message;
   import javax.jms.ObjectMessage;
8 import javax.jms.Session;
10 import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.jms.core.JmsTemplate;
14 import org.springframework.jms.core.MessageCreator;
15
   import org.springframework.stereotype.Component;
16
17 /**
18
    * Simple JMS Client - configured in activemq-client-context.xml.
    * @author adrian.milne
19
20
21
   @Component
23
   public class MessageDispatcher {
24
25
        /** Logger. */
        private static Logger LOG = LoggerFactory.getLogger(MessageDispatcher.class);
27
28
        /** JMS Template. */
29
        @Autowired
30
        protected JmsTemplate jmsTemplate;
31
32
         st Send the objectMessage to the Broker and Queue defined in application.properties.
33
34
         * @param objectMessage Object Message
35
36
        public void sendMessageObject(final Serializable objectMessage) {
37
38
           LOG.info("Sending message " + objectMessage);
39
           jmsTemplate.send(new MessageCreator() {
40
41
42
                public Message createMessage(Session session) throws JMSException {
43
                   ObjectMessage message = session.createObjectMessage(objectMessage);
44
                    return message;
45
               }
46
           });
47
48
           LOG.info("Message Sent!");
49
50
       }
51
52 }
ActiveMQ - MessageDispatcher.java hosted with ♥ by GitHub
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```

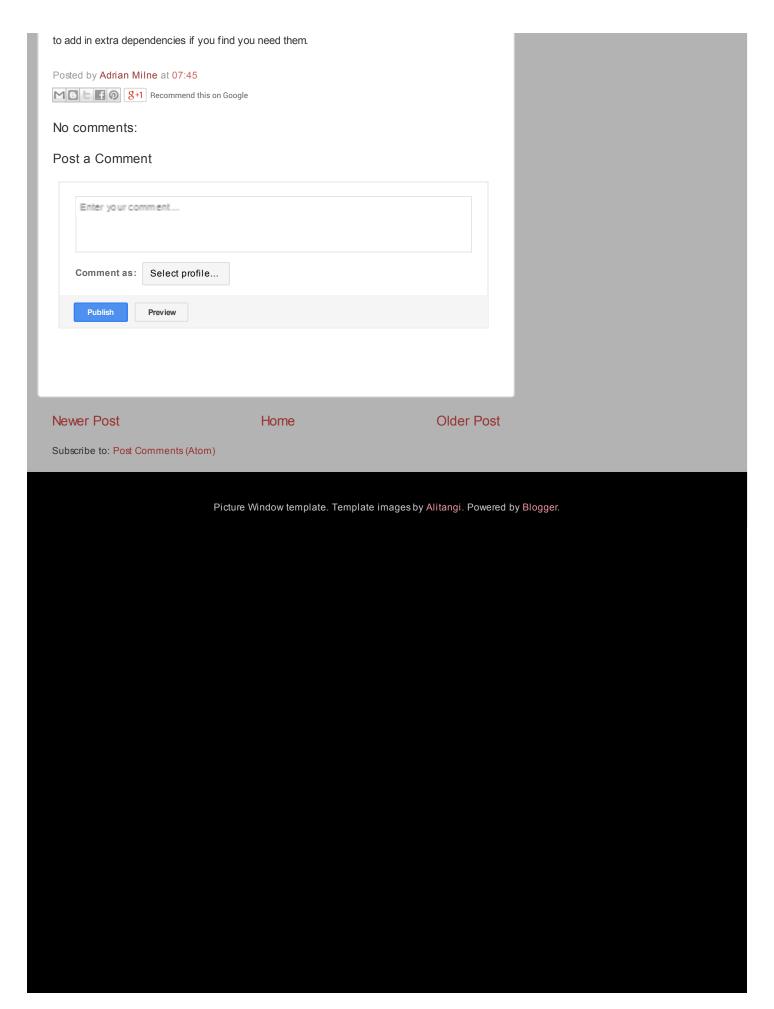
And that's about it really!

CONCLUSION

As stated at the start - this is just a throw aw ay project I use as a starting point when I need to w rite something to send messages to an ActiveMQ Queue/

It's a compromise between something super simple (like a simple class), and something that lends itself easily to being extended. What can often start off as a simple test can grow into something more complex - and as we have maven and spring all configured at the start - it's then very easy

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