Group 2: Image Recognition					
Test Number	Test Name	Preconditions	Test Actions	Expected Outcome	Actual Outcome
1.1	Receiving and sending single message	ActiveMQ test server set up. A message needs to be in a JMS queue ready to be read.	Add a message to the test ActiveMQ server and run the program to get it to receive the message and send it off. Check that the message has been read and added to a topic within the ActiveMQ test server.	A single message should be received from a JMS queue and read, then the message should be sent out to a JMS topic.	
1.2	Multiple receiving and sending message	ActiveMQ test server set up. Multiple messages need to be in a JMS queue ready to be read.	Add multiple messages to the test ActiveMQ server and run the program to get it to receive the messages and send them off. Check that the messages have been read and added to a topic within the ActiveMQ test server.	Multiple messages should be received and read from a JMS queue and sent out to a JMS topic.	
1.3	Receiving message with missing image	ActiveMQ test server set up. A message will be in the queue will a null image attribute.	Add a message to the test server with the image attribute null. Run the program and it should detect when de-serialising the message that a field is missing. The message should appear as read on the ActiveMQ server and added to a separate error queue.	The system will read in the message into an object. Check to ensure none of the values are null or empty. The null image will be recognised and the message will be sent to a separate queue for incomplete messages.	
1.4	Receiving a message with missing information	ActiveMQ test server set up. A message will be in the queue with a missing attribute.	Add a message to the test server with a null attribute. Run the program and it should detect when de-serialising the message that a field is missing. The message should appear as read on the ActiveMQ server and added to a separate error queue.	The system will read in the message into an object. Check to ensure none of the values are null or empty. The null attribute will be recognised and the message will be sent to a separate queue for incomplete messages.	
1.5	Unrecognisable image	ActiveMQ test server set up. A	Add a message to the test server with a image that cannot be read by the Java	The system will read in a message and de-serialise it into an object. The image	

		message will be in the queue containing an image that the Java ANPR is unable to recognise.	ANPR library. The message will be read and de-serialised. The image will be processed in the Java ANPR image recogniser but the return value will be null. The message will be serialised and sent to a message error queue which can be seen in the ActiveMQ test server.	will be put into the JavaANPR image recogniser and return a null value. The message will be serialised and sent to a queue for messages with errors.	