# **ASSESSMENT - 05**

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Topic: JMS using RabbitMQ

Task:

Queue Name : NameProcess\_Queue

Exchange Name: NameProcess\_Exchange (give any routing key)

Exchange Type : Header

Create a Proxy: NameProcessProxy - (publish and consume message from queue using same

proxy)

### Queue Publisher process:

In proxy put the initial log "Queue publish process initiated"

FirstName:{any name} - pass this in header to rabbitMq

{"LastName":""} - pass with payload to rabbitMq

Queue Consumer Process:

In proxy put the initial log "Queue consume process initiated"

Consume the header and body from NameProcess\_Queue

Read the FirstName from header and LastName from body and concat them

In proxy put the log "Queue consume process success"

print the payload a below format

<Name>firstname Lastname</Name>

#### Code:

```
<?xml version="1.0" encoding="UTF-8"?>
xmlns="http://ws.apache.org/ns/synapse">
 <target>
  <inSequence>
    <log level="custom">
     eval($.FirstName)"/>
    <call>
     <endpoint>
      <address
uri="rabbitmq:/?rabbitmq.connection.factory=AMQPConnectionFactory&rabbitmq.queu"
e.name=NameProcess_Queue&rabbitmq.queue.routing.key=fullname&rabbitmq.exc
hange.name=NameProcess_Exchange">
        <suspendOnFailure>
         <initialDuration>-1</initialDuration>
         cprogressionFactor>1/progressionFactor>
        </suspendOnFailure>
        <markForSuspension>
         <retriesBeforeSuspension>0</retriesBeforeSuspension>
        </markForSuspension>
      </address>
     </endpoint>
    </call>
    <log level="custom">
     </log>
    type="STRING"/>
    type="STRING"/>
    scope="default" type="STRING"/>
    log level="custom" separator="|">
     cproperty expression="$ctx:fname" name="first"/>
     cproperty expression="$ctx:lname" name="last"/>
     cproperty expression="$ctx:FullName" name="FULL"/>
    </log>
    <log level="custom">
     </log>
    <payloadFactory media-type="xml">
     <format>
```

```
<Name>$1</Name>
        </format>
        <args>
           <arg evaluator="xml" expression="$ctx:FullName"/>
        </args>
      </payloadFactory>
      <respond/>
    </inSequence>
    <outSequence/>
    <faultSequence/>
  </target>
  <parameter name="rabbitmq.exchange.type">headers</parameter>
  <parameter name="rabbitmq.exchange.name">NameProcess_Exchange</parameter>
  <parameter name="rabbitmq.connection.factory">AMQPConnectionFactory</parameter>
  <parameter name="rabbitmq.queue.name">NameProcess_Queue</parameter>
</proxy>
```

#### Output:

#### Success Case:

```
Moto Integrator Server 4.20 (Genetic Server) C.U.Dern'Appliere Lablagoan/Derkitor/USC2.Untegration/Studiolydk-home/birip/www.eee (02-Apr-2024.10.2007 AM)

[2024-84-02 10:20:13,168] MFG (Event-Admin-Configure-tion/Notifier) - logging configuration changed. (Event Admin service unavailable - no notification sent).

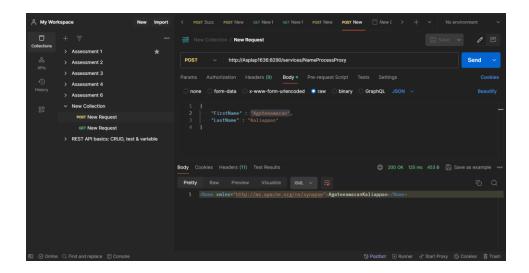
2024-84-02 10:20:13,168] MFG (RabbitNdSender) - RabbitVd (AMP) Fransport Sender initialized...

[2024-84-02 10:20:13,158] MFG (RabbitNdSender) - RabbitVd (AMP) Fransport Sender initialized...

[2024-84-02 10:20:13,158] MFG (RabbitNdSender) - RabbitVd (AMP) Fransport Receiver initialized...

[2024-84-02 10:20:13,763] MFG (RabbitNdSender) - RabbitVd (AMP) Fransport Receiver initialized...

[2024-84-02 10:20:23,804] MFG (ProvyService) - (proxy.NameProcessProxy) Building Axis service for Proxy service: NameProcessProxy [2024-84-02 10:20:33,804] MFG (ProxyService) - (proxy.NameProcessProxy) Successfully created the Axis service for Proxy service: NameProcessProxy [2024-84-02 10:20:33,804] MFG (ProxyService) - (proxy.NameProcessProxy) Successfully created the Axis service for Proxy service: NameProcessProxy [2024-84-02 10:20:33,804] MFG (ProxyService) - (proxy.NameProcessProxy) Successfully created the Axis service for Proxy service: NameProcessProxy Successfully Pelpoyed Carbon Application: Assessment05CompositeExporter_1.0.8-SNAPSHOT(super-tenant) [2024-84-02 10:20:33,804] MFG (ProxyService) - (proxy.NameProcessProxy) Successfully Tenansport (Proxy Service) - (proxy.NameProcessProxy) [2024-84-02 10:20:33,804] MFG (AppDelpoyer) - Successfully Pelpoyed Carbon Application: Assessment05CompositeExporter_1.0.8-SNAPSHOT(super-tenant) [2024-84-02 10:20:33,804] MFG (AppDelpoyer) - Successfully Pelpoyed associated in Configuration: Assessment05CompositeExporter_1.0.8-SNAPSHOT(super-tenant) [2024-84-02 10:20:33,804] MFG (ProxyService) - Proxy.NameProcessProxy Proxy.NameProcessProxy for the RABSITVQ transport: Service doesn't have configuration in for the Proxy of t
```



#### Error Case:

