LAB- Using Webservice outbound Gateway

In this lab you will be understanding how to use Webservice outbound gateway

In this lab, you will be working on **07-webservice-outbound-gateway-start** project

Step1

1) In earlier exercise, you have already exposed a soap webservice using spring.

Open 02soapwebserviceinterceptors-solution project and deploy it on tomcat.

Give the following request to to see the wsdl

http://localhost:8080/soapwebserviceinterceptors-solution/ws/orderProcess.wsdl

We want to consume this webservice using a webservice gateway adapter

2) Open 07-webservice-outbound-gateway-start and observe that the jaxb classes were already generated in com.way2learnonline.domain package for you using orderprocess.xsd present in src/main/resources

3) Open webservice-outbound-gateway.xml and Observe that orders-channel is already declared.

Webservice Gateway requires a marshaller to convert Object to Xml and viceversa.

Declare Jaxb2Marshaller as shown below :

```xml
<oxm:jaxb2-marshaller id="jaxb2Marshaller"
context-path="com.way2learnonline.domain" />
```

4) Select int-ws namespace check box under namespaces tab.

Now declare a webservice outbound gateway which receives message from orders-channel and invokes the webservice at endpoint url
http://localhost:8080/soapwebserviceinterceptors-solution/ws as shown below :

```
<int-ws:outbound-gateway request-channel="orders-channel"
  uri="http://localhost:8080/soapwebserviceinterceptors-solution/ws"
 marshaller="jaxb2Marshaller" unmarshaller="jaxb2Marshaller"
  reply-channel="orders-reply-channel" />
```

 Observe that the reply-channel is configured as orders-reply channel.

Declare a channnel with same name. Also declare an adapter with takes from orders-reply channel and prints on console.

5) Now Open WebserviceOutboundGateWayDemo.java and Observe that the code is   sending a message with payload ProcessOrderRequest in orders channel.

Run it and Observe that the reply from web service is printed on the console

6) We want to Observe the soap message going out from the outbound gateway and the response coming in.

Open TCP /IPMonitor and configure it to listen on port 9090 and forward to localhost:8080

Now in the webservice-outbound-gateway.xml, change the port in the endpoint url as 9090 and run WebserviceOutboundGateWayDemo.java

Now you should be able to see the soap messages in TCP/IP Monitor

Congratulations !! You know   how to use   Webservice outbound Gateway