

## 3 Test Tutorial REST Service

### 3.1 Description

This tutorial guides you through testing the REST service deployed in **Tutorial 1 - Deploy Tutorial Services**.

### 3.2 Prerequisites

#### 3.2.1 Environment

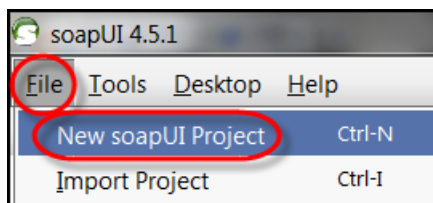
1. Layer 7 SecureSpan Gateway (*this tutorial was designed using a version 7.0 gateway; it may or may not work with earlier versions; it should work with later versions*)
2. soapUI (*this tutorial was designed using the free soapUI version 4.5.1; it may or may not work with other versions of soapUI; other clients can be used for this and other tutorials, but specific steps will not be provided for those other clients*)

#### 3.2.2 Tutorials

1. Layer 7 Tutorials - Getting Started
2. Tutorial 1 - Deploy Tutorial Services

### 3.3 Tutorial Steps

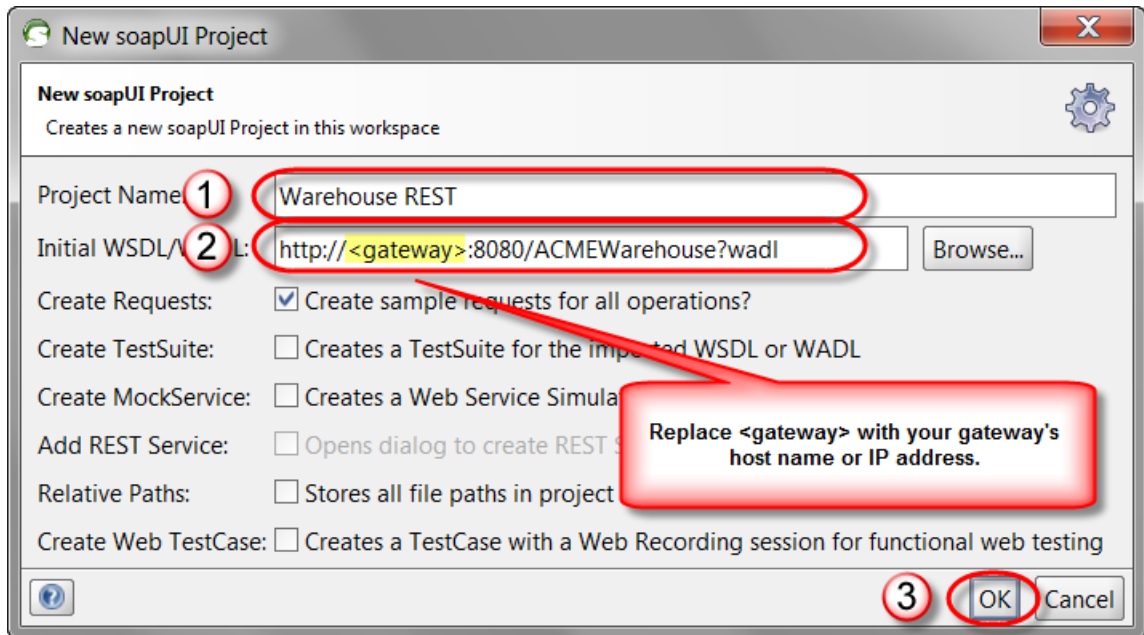
1. Start soapUI.
2. Select the **File/New soapUI Project** menu item.



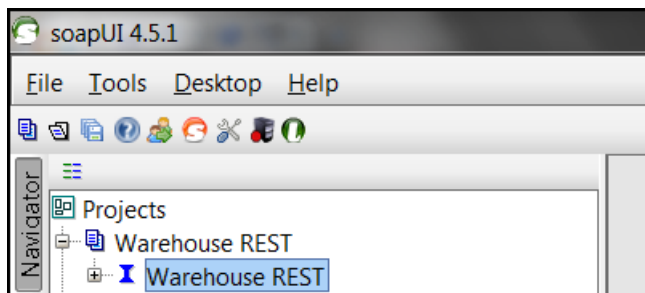
3. In the New soapUI Project dialog, in the Project Name field type **Warehouse REST**, in the Initial WSDL/WADL field type:

***http://<gateway>:8080/ACMEWarehouse?wadl***

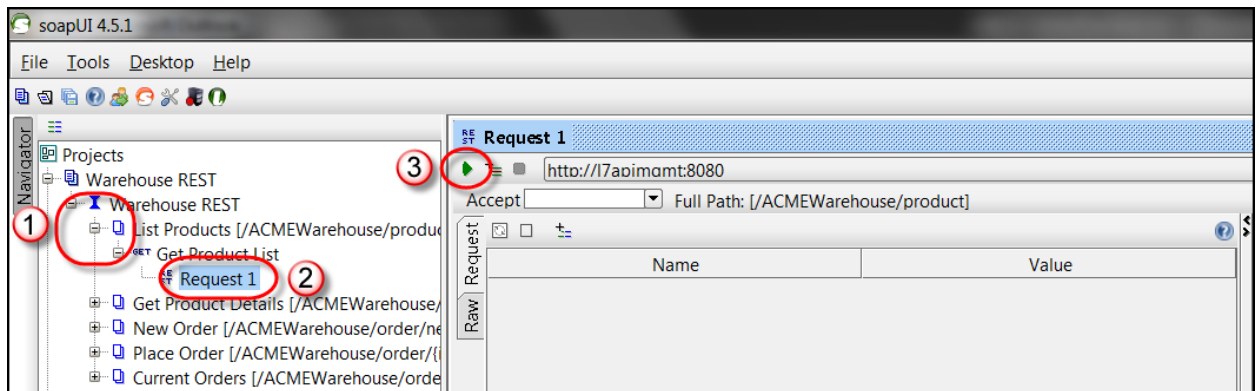
Replace <gateway> with the host name or IP address of your gateway, and click the **OK** button.



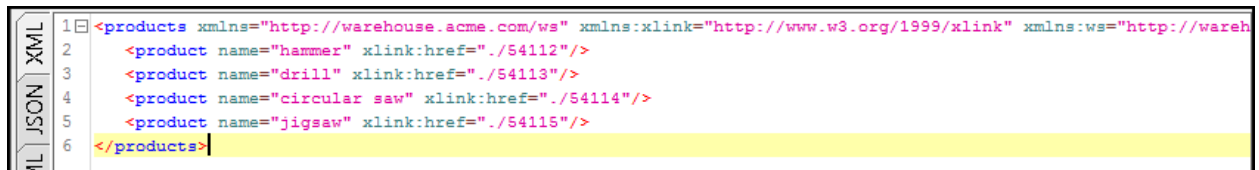
4. In the soapUI Navigator window, you should now have a Warehouse REST project like this:



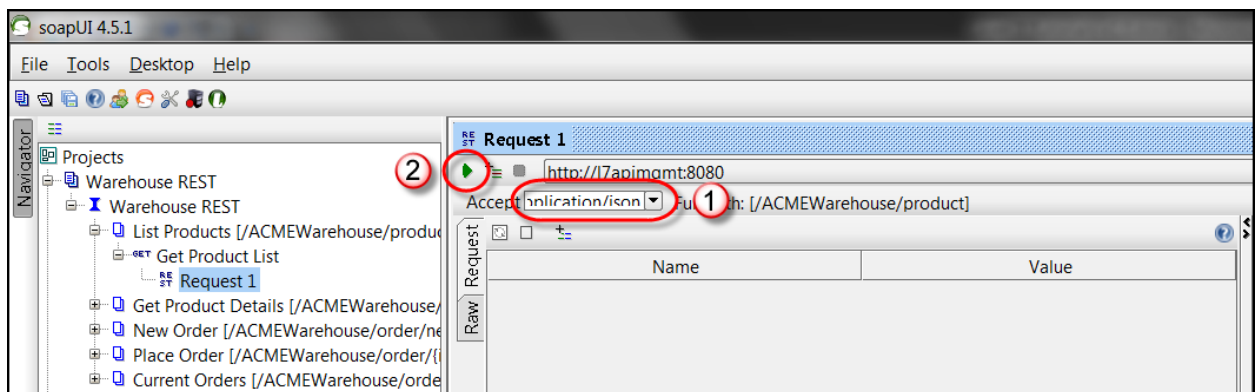
5. In the soapUI Navigator window, expand the **Warehouse REST/List Products/Get Product List** method, and double-click on **Request 1**. Then, click on the **green arrow** to submit the request to the gateway.



6. You should see the following XML response:



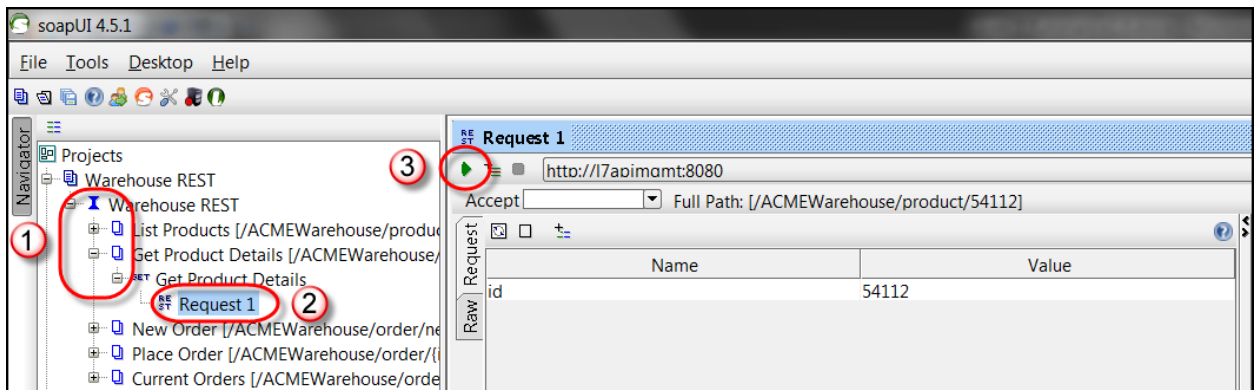
7. To see a JSON response, in the Request 1 dialog, in the Accept field, type **application/json**, and then click on the **green arrow** to submit the request to the gateway.



8. You should see the following JSON response:

```
1 {"products": [  
2   {  
3     "name": "hammer",  
4     "id": 54112  
5   },  
6   {  
7     "name": "drill",  
8     "id": 54113  
9   },  
10  {  
11    "name": "circular saw",  
12    "id": 54114  
13  },  
14  {  
15    "name": "jigsaw",  
16    "id": 54115  
17  }  
18 ]}
```

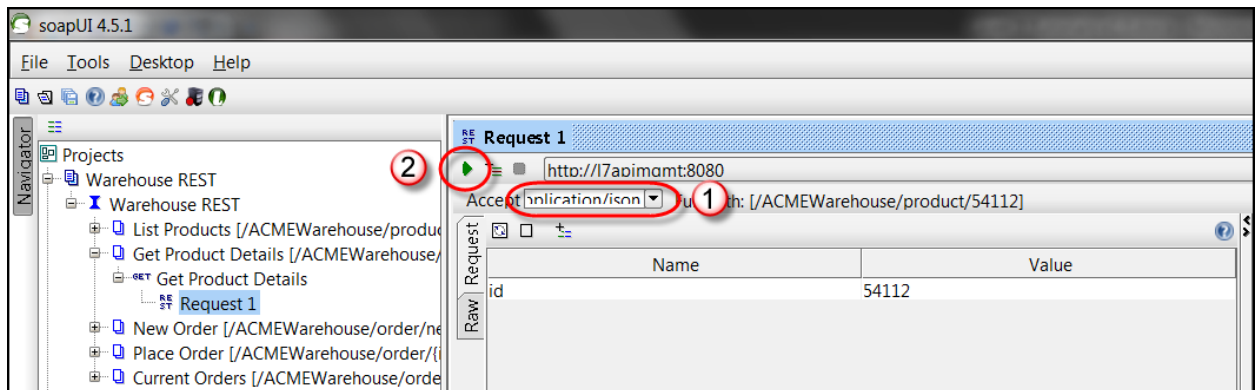
9. In the soapUI Navigator window, expand the **Warehouse REST/Get Product Details/Get Product Details** method, and double-click on **Request 1**. Then, click on the **green arrow** to submit the request to the gateway.



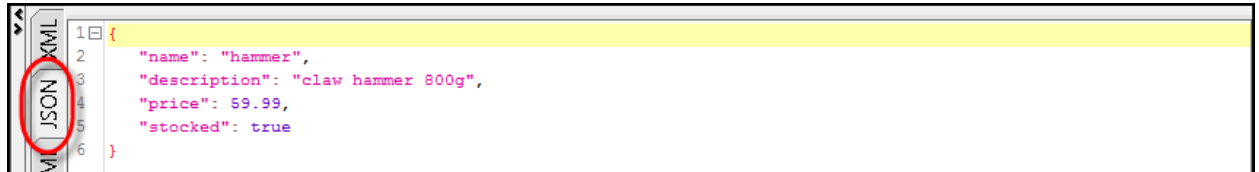
10. You should see the following XML response:

```
1 <productDetails xmlns="http://warehouse.acme.com/ws">  
2   <productName>hammer</productName>  
3   <description>claw hammer 800g</description>  
4   <price>59.99</price>  
5   <inStock>true</inStock>  
6 </productDetails>
```

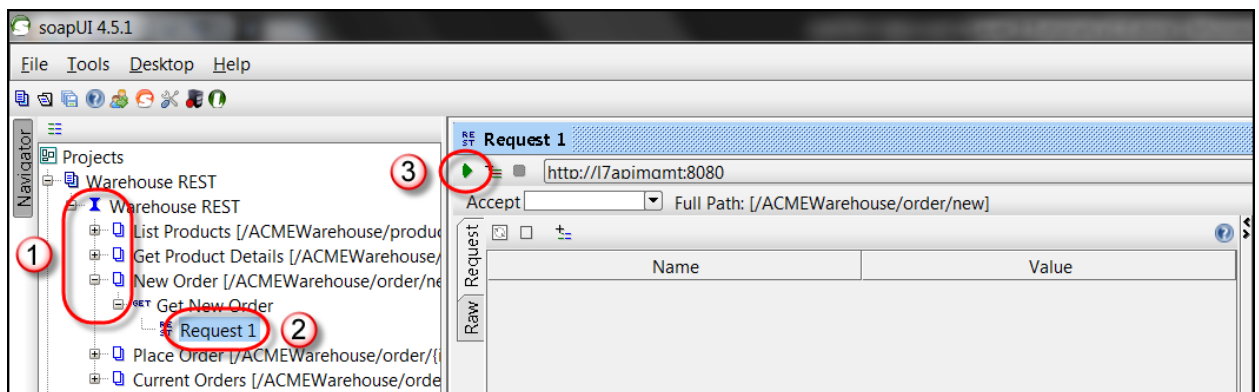
11. To see a JSON response, in the Request 1 dialog, in the Accept field, type **application/json**, and then click on the **green arrow** to submit the request to the gateway.



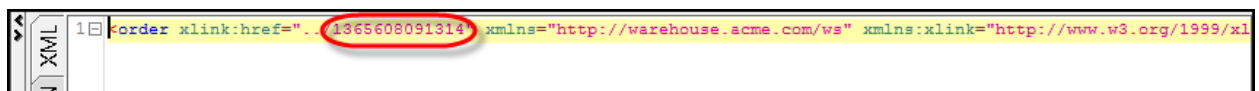
12. You should see the following JSON response:



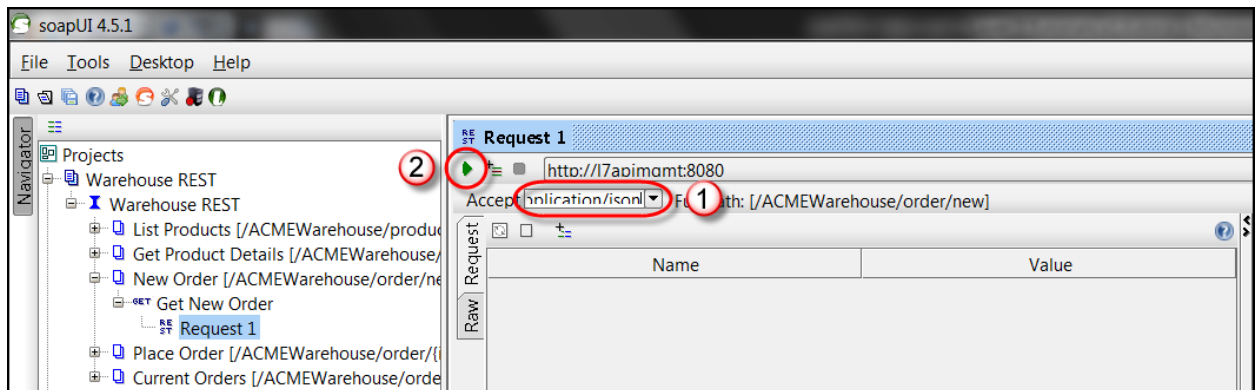
13. In the soapUI Navigator window, expand the **Warehouse REST/New Order/Get New Order** method, and double-click on **Request 1**. Then, click on the **green arrow** to submit the request to the gateway.



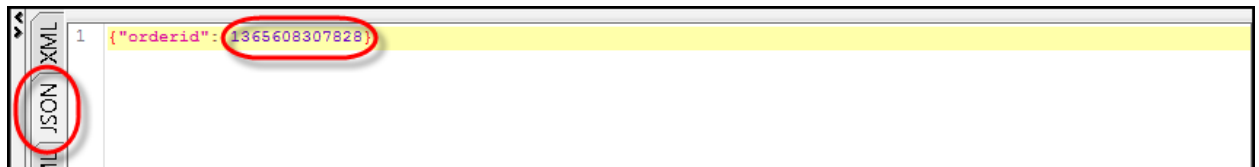
14. You should see the following XML response (the circled number is the new order ID that can be copied to be pasted for the **id** parameter of the Put Place Order method request):



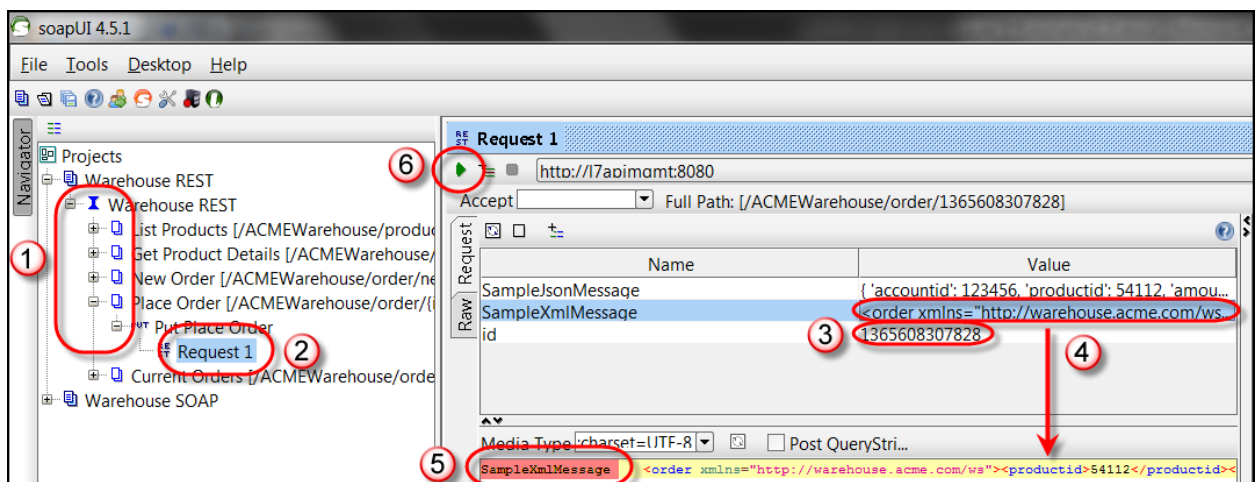
15. To see a JSON response, in the Request 1 dialog, in the Accept field, type **application/json**, and then click on the **green arrow** to submit the request to the gateway.



16. You should see the following JSON response (the circled number is the new order ID that can be copied to be pasted for the **id** parameter of the Put Place Order method request):



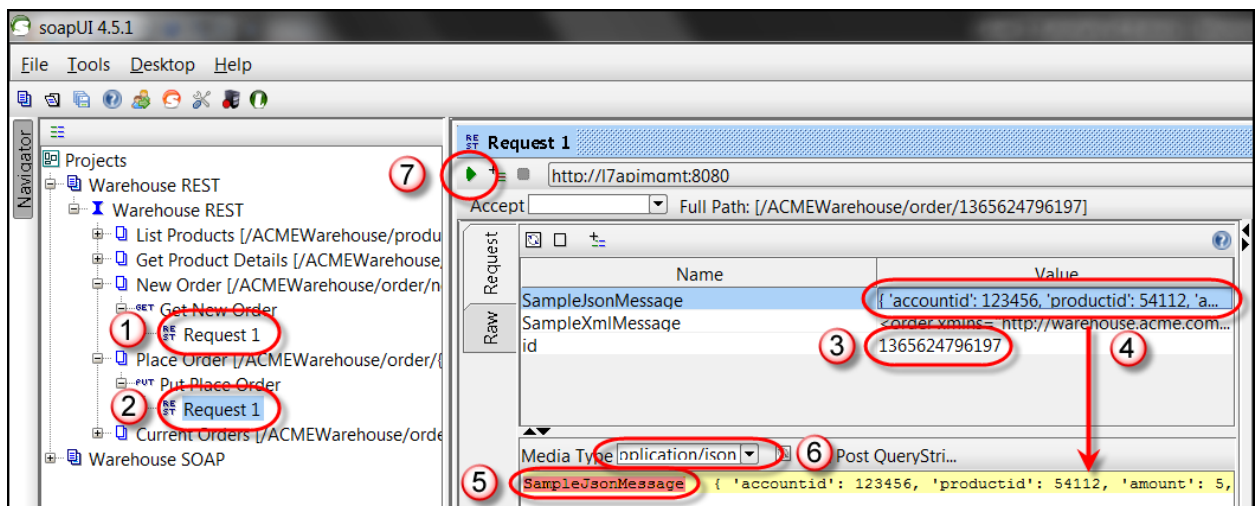
17. In the soapUI Navigator window, expand the **Warehouse REST/Place Order/Put Place Order** method, and double-click on **Request 1**. Paste the new order ID copied from previous steps into the **id** parameter value field, and copy **SampleXmlMessage** parameter value and paste it to the request message field below. Delete the **SampleXmlMessage** text at the front of the pasted message request. Then, click on the **green arrow** to submit the request to the gateway.



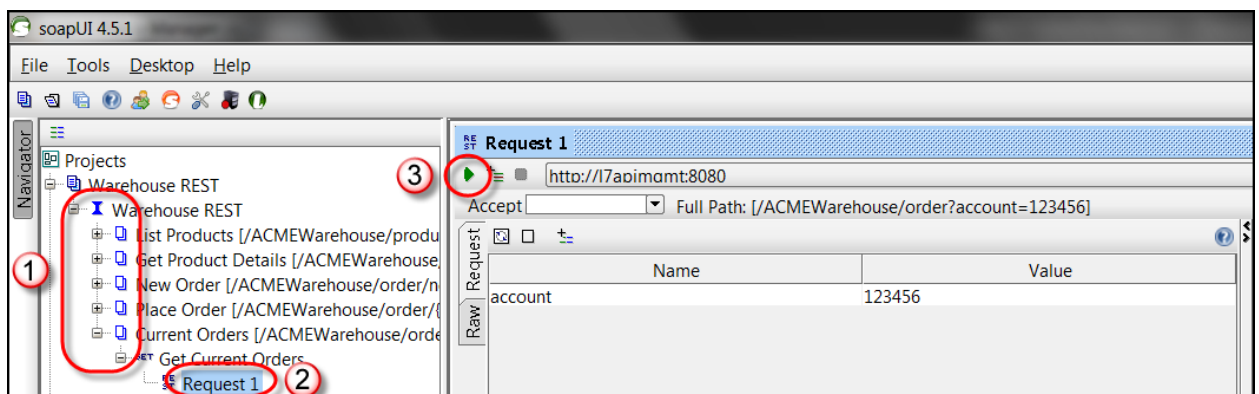
18. You should see the following response (which is effectively an empty response as displayed in soapUI's XML response tab, and as verified by the Raw response tab; the corresponding JSON response is also empty):

```
<data contentType="text/plain;charset=utf-8" contentLength="0"><![CDATA[]]></data>
```

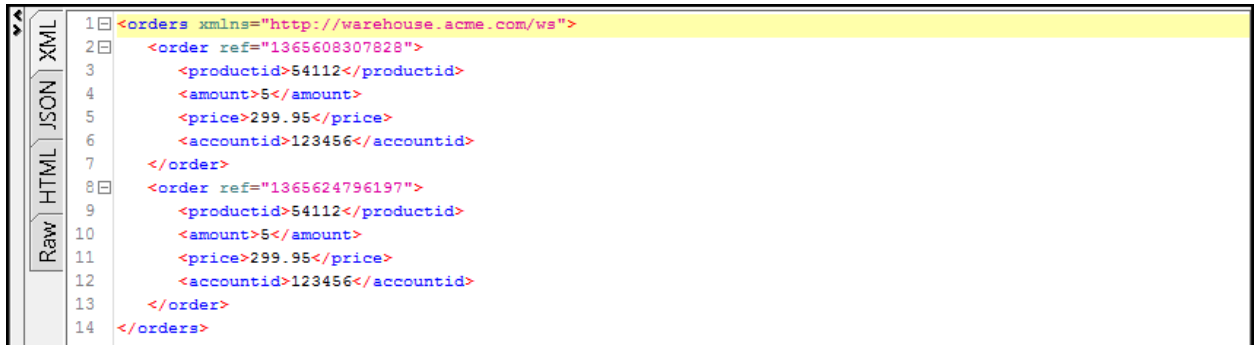
19. To send a JSON request, first **repeat steps 13 & 14** to get a new order ID. Then, in the soapUI Navigator window, expand the **Warehouse REST/Place Order/Put Place Order** method, and double-click on **Request 1**. Paste the new order ID copied from previous steps into the **id** parameter value field, and copy **SampleJsonMessage** parameter value and paste it to the request message field below (to replace the previous sample XML message). Delete the **SampleJsonMessage** text at the front of the pasted message request. In the Media Type field, type **application/json**. Finally, click on the **green arrow** to submit the request to the gateway



20. In the soapUI Navigator window, expand the **Warehouse REST/Current Orders/Get Current Orders** method, and double-click on **Request 1**. Then, click on the **green arrow** to submit the request to the gateway.

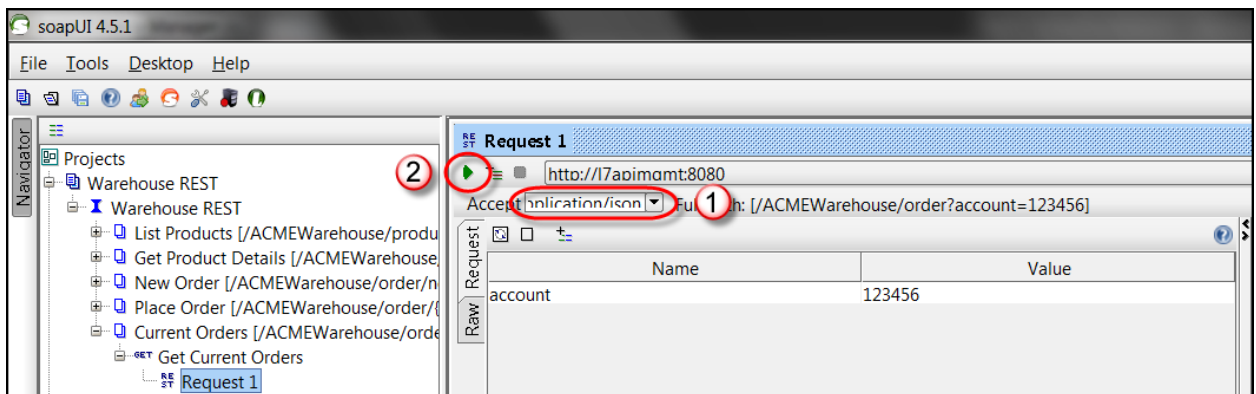


21. You should see the following XML response (with more or less orders depending on what other Put Place Order requests you have sent for this account):

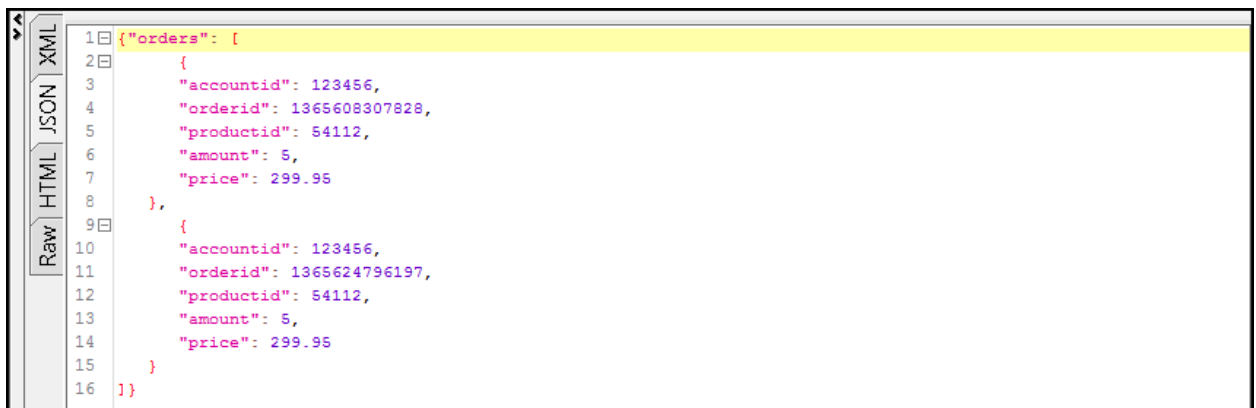


```
1 <orders xmlns="http://warehouse.acme.com/ws">
2   <order ref="1365608307828">
3     <productid>54112</productid>
4     <amount>5</amount>
5     <price>299.95</price>
6     <accountid>123456</accountid>
7   </order>
8   <order ref="1365624796197">
9     <productid>54112</productid>
10    <amount>5</amount>
11    <price>299.95</price>
12    <accountid>123456</accountid>
13  </order>
14 </orders>
```

22. To see a JSON, in the Request 1 dialog, in the Accept field, type **application/json**, and then click on the **green arrow** to submit the request to the gateway.



23. You should see the following JSON response (with more or less orders depending on what other Put Place Order requests you have sent for this account):



```
1 {"orders": [
2   {
3     "accountid": 123456,
4     "orderid": 1365608307828,
5     "productid": 54112,
6     "amount": 5,
7     "price": 299.95
8   },
9   {
10    "accountid": 123456,
11    "orderid": 1365624796197,
12    "productid": 54112,
13    "amount": 5,
14    "price": 299.95
15  }
16 ]}
```

24. You are done with this tutorial.



### 3.4 Additional Context

Other tutorials may have you create similar soapUI projects for the Warehouse REST service, or proxies to the Warehouse REST service. If a proxy overrides the default gateway URI (taken from the @base attribute of the <resources/> element of the WADL), then you'll want to override the base URI when creating the soapUI project. This can be done with a URL like this:

**http://<gateway>:8080/ACMEWarehouse?base=<base value>&wadl**

Replace **<gateway>** with the host name or IP address of your gateway, and **<base value>** with the base URI that you want exposed by the WADL instead of "/ACMEWarehouse".