20 October 2016

The initial task was :

to implement an automated test using Shipwire APIs that:

1. Creates a new order

2. Retrieves the details of the order

3. Edits the order

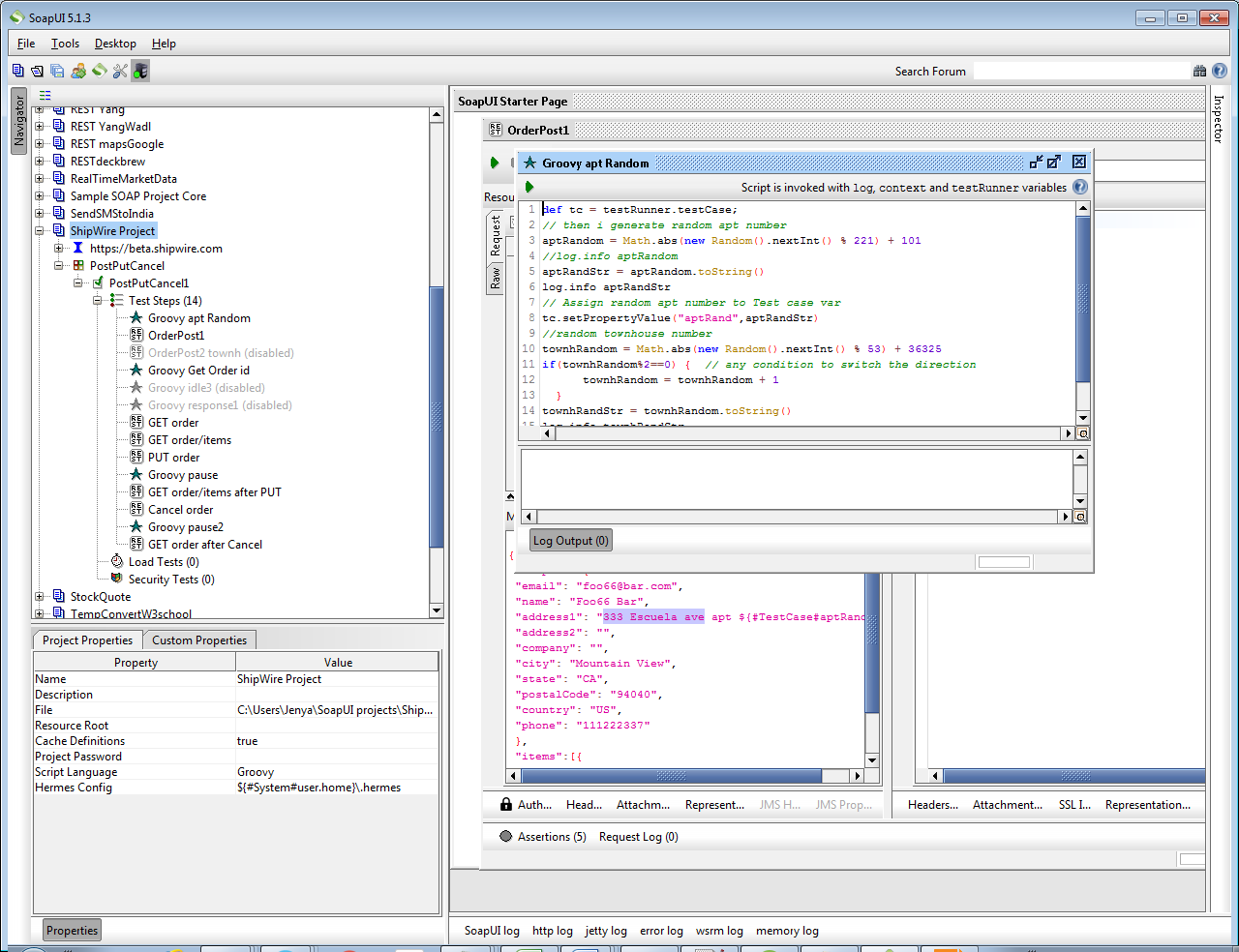
4. Cancels the order

To create this scenario I utilized free tool SoapUI. It can be downloaded from here :

<https://www.soapui.org/downloads/soapui.html>

The name of the project : ShipWire Project

The project ( for SoapUI) is saved in XML file which is attached.

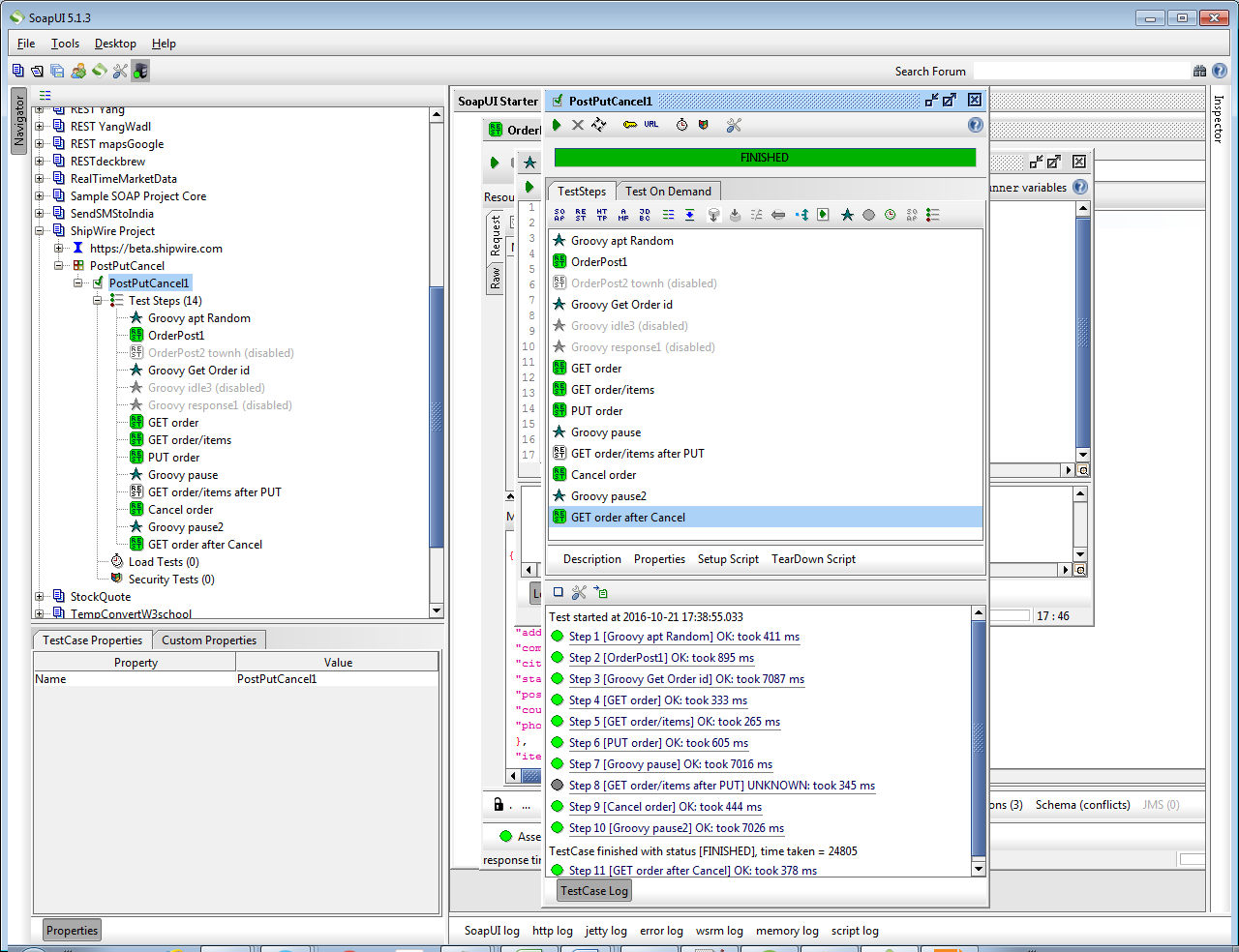


As you can see in screenshot I created a Test Suite - PostPutCancel.

In this Test Suite I created one Test Case ( for simplicity ) - PostPutCancel1.

Test case PostPutCancel1 contains several steps.

Below is a snapshot after Test Case (PostPutCancel1) was run ( successfully ) :



Descriptions of steps :

1. Groovy apt Random.

Here I generate a random apt number for the address used in Post step.

In my scenario I had to use a valid address.

I used the real address : 333 Escuela ave apt{number} , Mountain View, CA 94040

with the apt number randomly generated in the range : 101-322.

def tc = testRunner.testCase;

// then i generate random apt number

aptRandom = Math.abs(new Random().nextInt() % 221) + 101

//log.info aptRandom

aptRandStr = aptRandom.toString()

log.info aptRandStr

// Assign random apt number to Test case var

tc.setPropertyValue("aptRand",aptRandStr)

//random townhouse number

townhRandom = Math.abs(new Random().nextInt() % 53) + 36325

if(townhRandom%2==0) { // any condition to switch the direction

townhRandom = townhRandom + 1

}

townhRandStr = townhRandom.toString()

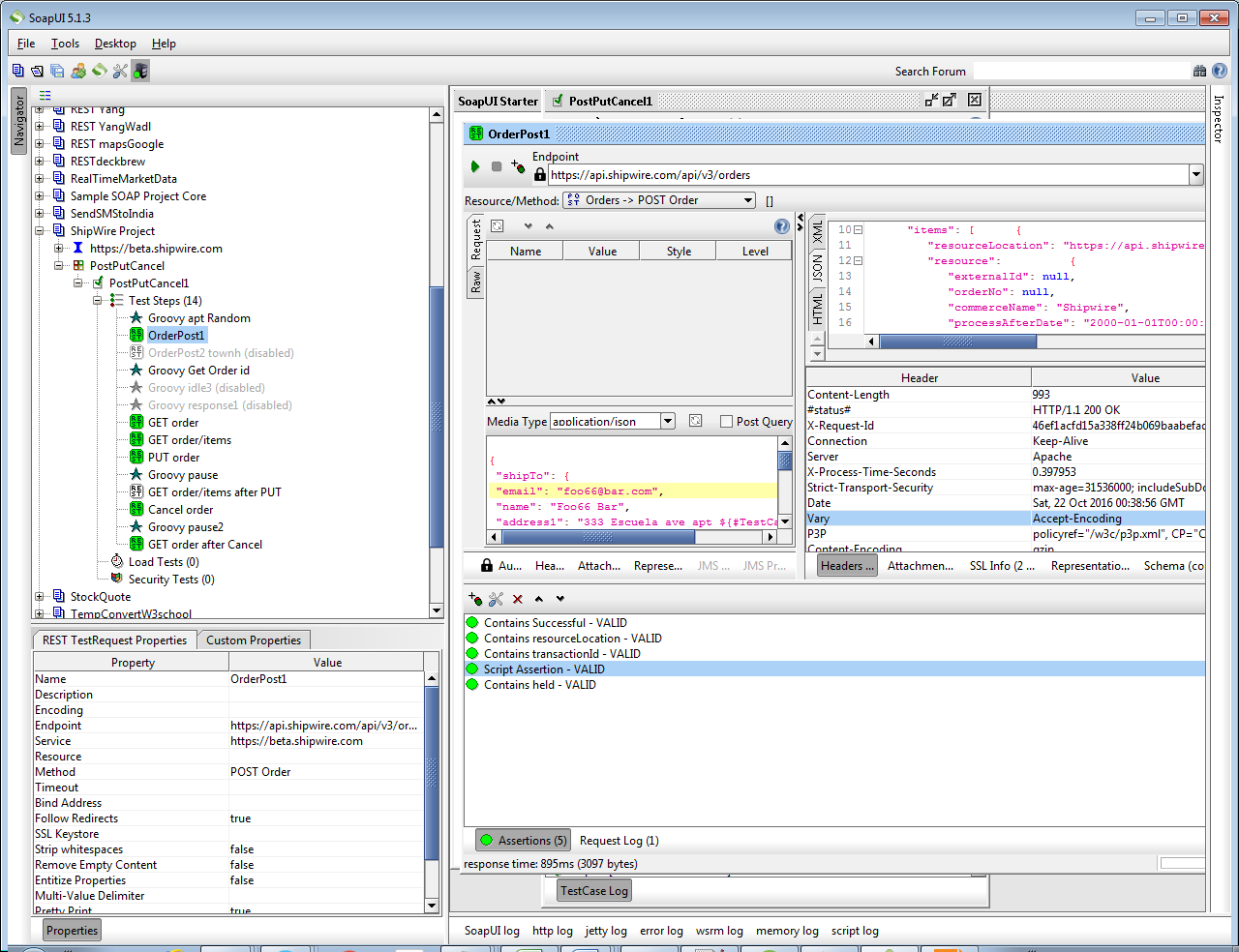
log.info townhRandStr

// Assign random townhouse number to Test case var

tc.setPropertyValue("townhRand",townhRandStr)

1. OrderPost1 .

Here I send a Post request with real address. Get a Response and assert some values in the Response :



Request :

POST https://api.shipwire.com/api/v3/orders HTTP/1.1

Accept-Encoding: gzip,deflate

Content-Type: application/json

Content-Length: 303

Host: api.shipwire.com

Connection: Keep-Alive

User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

Cookie: X-Mapping-nmdogidi=0C43FF9818CE85CD976C3BA809DF9407

Cookie2: $Version=1

Authorization: Basic c2hpcHRlc3RAbWFpbGluYXRvci5jb206dGVzdDEyMzQ=

Body :

{

"shipTo": {

"email": "foo66@bar.com",

"name": "Foo66 Bar",

"address1": "333 Escuela ave apt ${#TestCase#aptRand}",

"address2": "",

"company": "",

"city": "Mountain View",

"state": "CA",

"postalCode": "94040",

"country": "US",

"phone": "111222337"

},

"items":[{

"sku":"Frog-Keychain",

"quantity":1

}]

}

Apt number is parameterized here.

The response :

|  |  |
| --- | --- |
| Content-Length | 993 |
| #status# | HTTP/1.1 200 OK |
| X-Request-Id | 46ef1acfd15a338ff24b069baabefad3 |
| Connection | Keep-Alive |
| Server | Apache |
| X-Process-Time-Seconds | 0.397953 |
| Strict-Transport-Security | max-age=31536000; includeSubDomains |
| Date | Sat, 22 Oct 2016 00:38:56 GMT |
| Vary | Accept-Encoding |
| P3P | policyref="/w3c/p3p.xml", CP="COM CNT INT NAV PUR STA UNI CAO DSP CUR o i OUR IND" |
| Content-Encoding | gzip |
| Keep-Alive | timeout=5, max=100 |
| Content-Type | application/json |

Body : ( I don’t include the whole Body )

{

"status": 200,

"message": "Successful",

"resourceLocation": "https://api.shipwire.com/api/v3/orders?offset=0&limit=1",

"resource": {

"offset": 0,

"total": 1,

"previous": null,

"next": null,

"items": [ {

"resourceLocation": "https://api.shipwire.com/api/v3/orders/213508882",

"resource": {

"externalId": null,

"orderNo": null,

"commerceName": "Shipwire",

"processAfterDate": "2000-01-01T00:00:00-08:00",

"lastUpdatedDate": "2016-10-21T17:38:56-07:00",

"status": "held",

"vendorId": null,

"vendorExternalId": null,

"purchaseOrderId": null,

"purchaseOrderExternalId": null,

"purchaseOrderNo": null,

**"id": 213508882**,

"transactionId": "1477096736-493141-1",

"needsReview": 0,

. . . . . . . . . . .. . .

1. Groovy Get Order id

In this step I retrieve order id ( highlighted above ) from Post response and put it into Test Suite property ( create a variable ) . At the end I include a pause – 7 seconds.

import groovy.json.JsonSlurper

def slurper = new JsonSlurper()

def response = context.expand( '${OrderPost1#Response}' )

def jsonRes = slurper.parseText(response)

def id = jsonRes.resource.items.resource.id

// log.info jsonRes.resource.items.resource.id

log.info id

// Set up orderId from POST response

def tc = testRunner.testCase;

def ts = testRunner.testCase.testSuite;

strIdFull = id.toString()

len = strIdFull.length()

log.info len

strId = strIdFull.substring(1,len-1)

log.info strId

//tc.setPropertyValue("orderId",id.toString());

tc.setPropertyValue("orderId",strId);

**ts.setPropertyValue("orderId",strId);**

// nMake a pause here : 7 seconds

sleep(7000)

1. GET order.

In this step : GET [https://api.shipwire.com/api/v3/orders/${#TestSuite#orderId}](https://api.shipwire.com/api/v3/orders/$%7b#TestSuite#orderId})

Oder id is parameterized.

In a Response I assert some values :

( I omit Header and include not the whole Body )

{

"status": 200,

"message": "Successful",

"resourceLocation": "https://api.shipwire.com/api/v3/orders/213508882",

"resource": {

"externalId": null,

"orderNo": null,

"commerceName": "Shipwire",

"processAfterDate": "2000-01-01T00:00:00-08:00",

"lastUpdatedDate": "2016-10-21T17:38:56-07:00",

"status": "held",

"vendorId": null,

"vendorExternalId": null,

"purchaseOrderId": null,

"purchaseOrderExternalId": null,

"purchaseOrderNo": null,

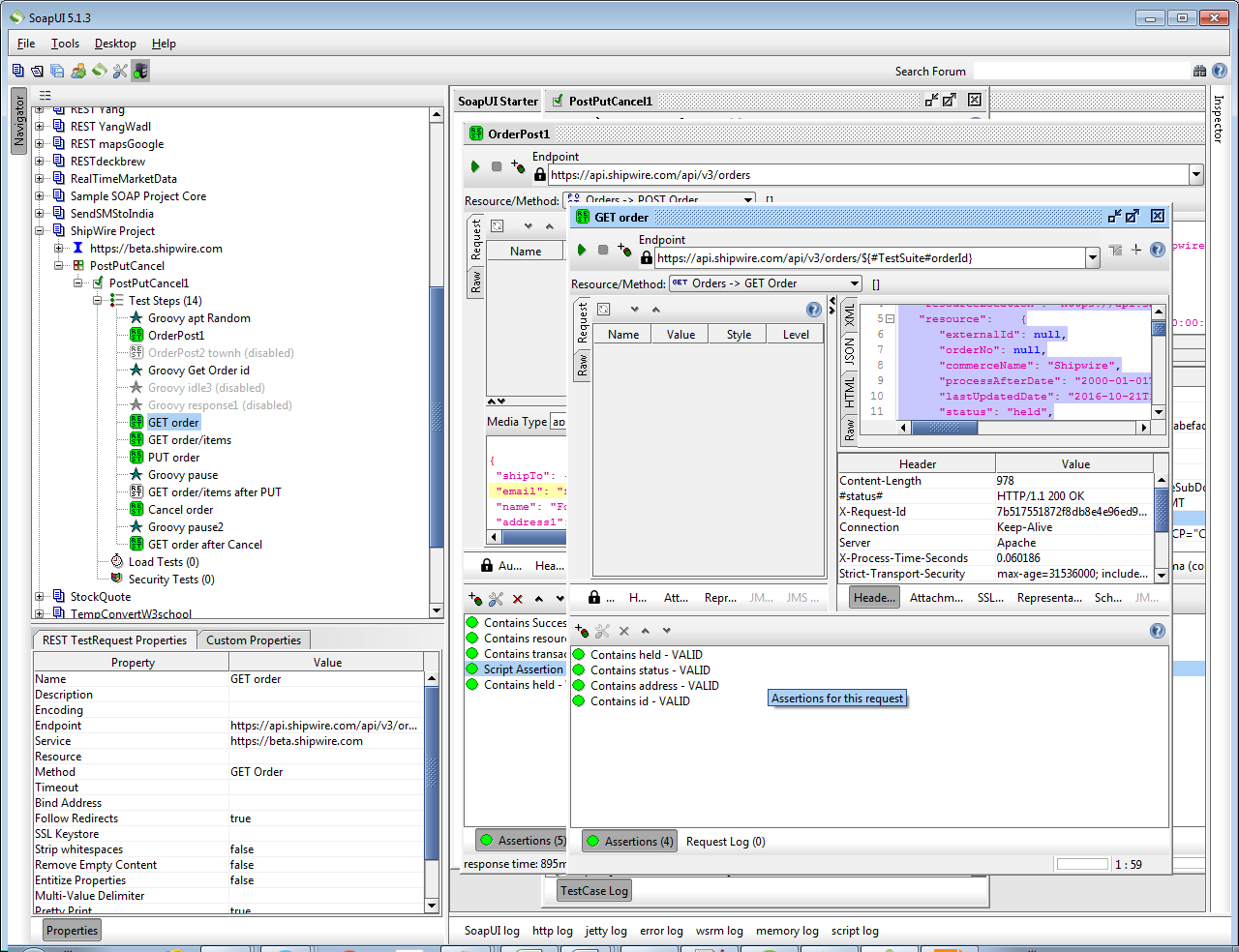
"id": 213508882,

"transactionId": "1477096736-493141-1",

"needsReview": 0,

. . . . . . . . . . .

Assertions :



1. GET [https://api.shipwire.com/api/v3/orders/${#TestSuite#orderId}/items](https://api.shipwire.com/api/v3/orders/$%7b#TestSuite#orderId}/items)

In Responses of steps 4,5 I tried to retrieve the value of "quantity" and couldn’t ("items"[] ) :

{

"status": 200,

"message": "Successful",

"resourceLocation": "https://api.shipwire.com/api/v3/orders/213508882/items?offset=0&limit=20",

"resource": {

"offset": 0,

"total": 0,

"previous": null,

"next": null,

**"items": []**

}

}

1. PUT order

PUT [https://api.shipwire.com/api/v3/orders/${#TestSuite#orderId}](https://api.shipwire.com/api/v3/orders/$%7b#TestSuite#orderId})

( I omit Header here )

Body :

{

"shipTo": {

"email": "foo66@bar.com",

"name": "Foo66 Bar",

"address1": "333 Escuela ave apt ${#TestCase#aptRand}",

"address2": "",

"company": "",

"city": "Mountain View",

"state": "CA",

"postalCode": "94040",

"country": "US",

"phone": "111222337"

},

"items":[{

"sku":"Frog-Keychain",

"quantity":3

}]

}

The Response :

Part of the Body :

{

"status": 200,

"message": "**Successful**",

"resourceLocation": "https://api.shipwire.com/api/v3/orders/213508882",

"resource": {

"externalId": null,

"orderNo": null,

"commerceName": "Shipwire",

"processAfterDate": "2000-01-01T00:00:00-08:00",

"lastUpdatedDate": "2016-10-21T17:38:56-07:00",

"status": "**held**",

"vendorId": null,

"vendorExternalId": null,

"purchaseOrderId": null,

"purchaseOrderExternalId": null,

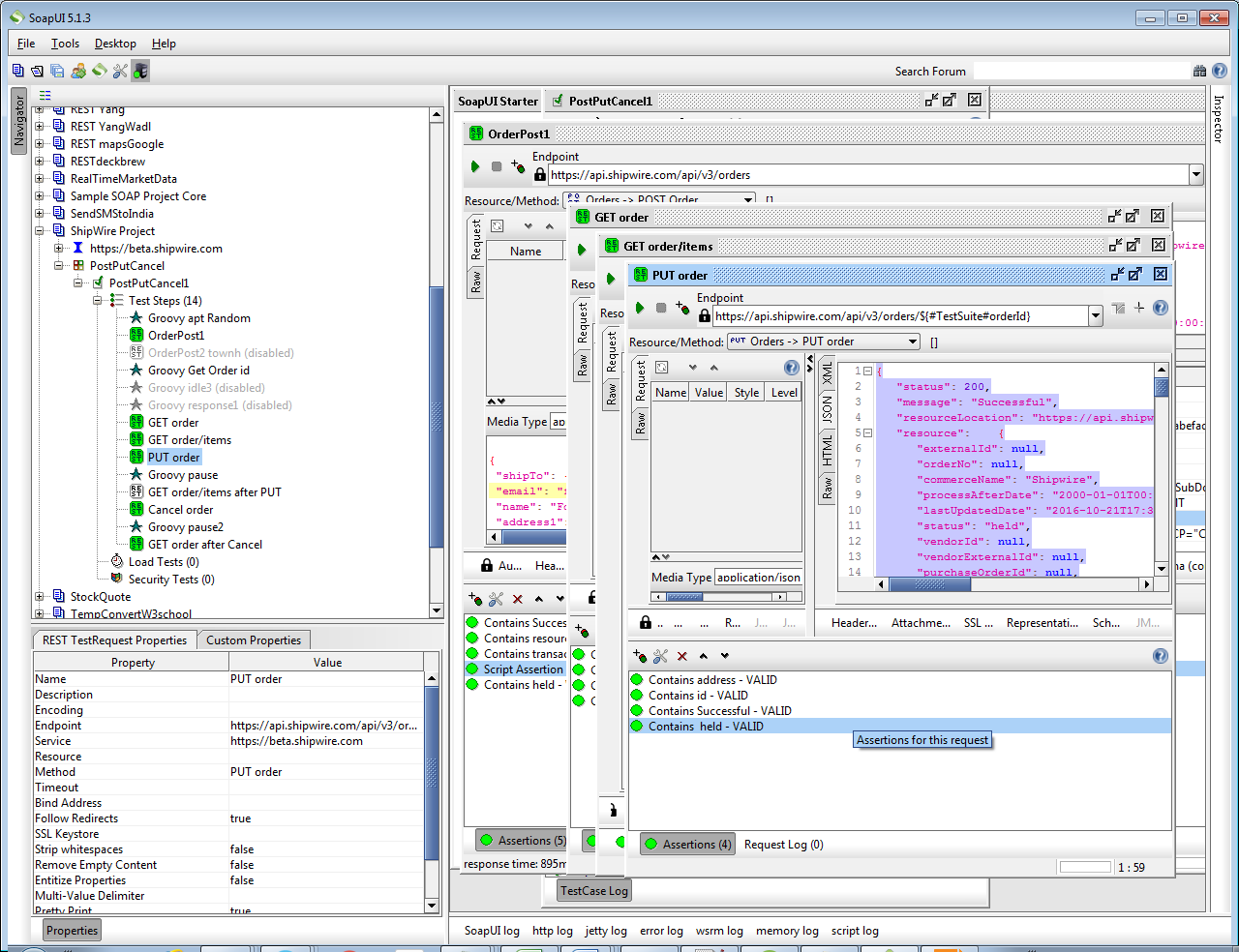
"purchaseOrderNo": null,

"id": **213508882**,

"transactionId": "1477096736-493141-1",

"needsReview": 0,

. . . . . . . . . .



1. Groovy pause .

Pause – 7 seconds

1. GET order/items after PUT

GET [https://api.shipwire.com/api/v3/orders/${#TestSuite#orderId}/items](https://api.shipwire.com/api/v3/orders/$%7b#TestSuite#orderId}/items)

No assertions here.

1. Cancel order

POST [https://api.shipwire.com/api/v3/orders/${#TestSuite#orderId}/cancel](https://api.shipwire.com/api/v3/orders/$%7b#TestSuite#orderId}/cancel)

Response :

{

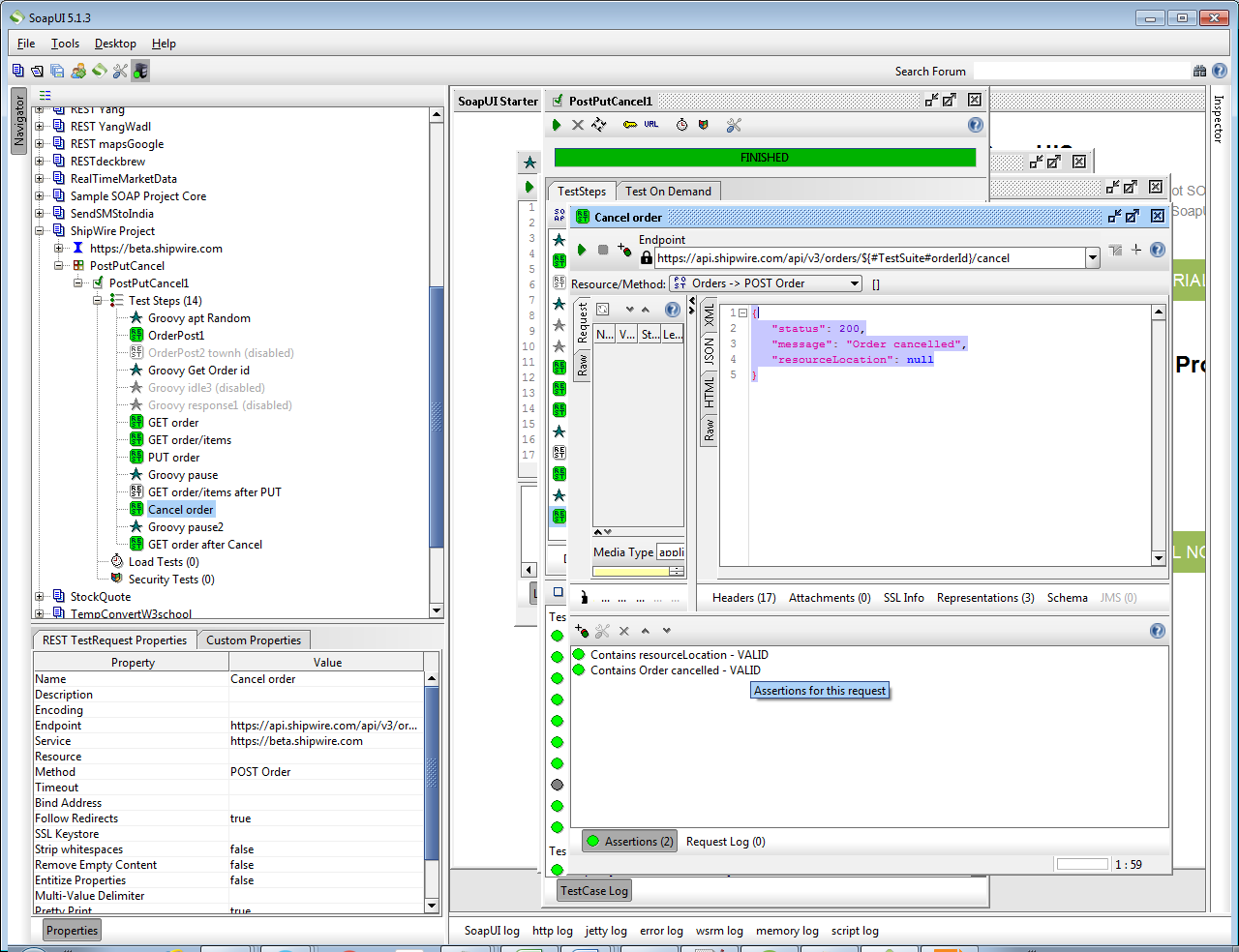
"status": 200,

"message": "Order cancelled",

"resourceLocation": null

}

Assertions :



1. Groovy pause2 .

Pause – 7 seconds

1. GET order after Cancel

GET [https://api.shipwire.com/api/v3/orders/${#TestSuite#orderId}](https://api.shipwire.com/api/v3/orders/$%7b#TestSuite#orderId})

Response :

Part of the Body :

{

"**status**": 200,

"message": "Successful",

"resourceLocation": "https://api.shipwire.com/api/v3/orders/213508882",

"resource": {

"externalId": null,

"orderNo": null,

"commerceName": "Shipwire",

"processAfterDate": "2000-01-01T00:00:00-08:00",

"lastUpdatedDate": "2016-10-21T17:39:13-07:00",

"status": "**cancelled**",

"vendorId": null,

"vendorExternalId": null,

"purchaseOrderId": null,

"purchaseOrderExternalId": null,

"purchaseOrderNo": null,

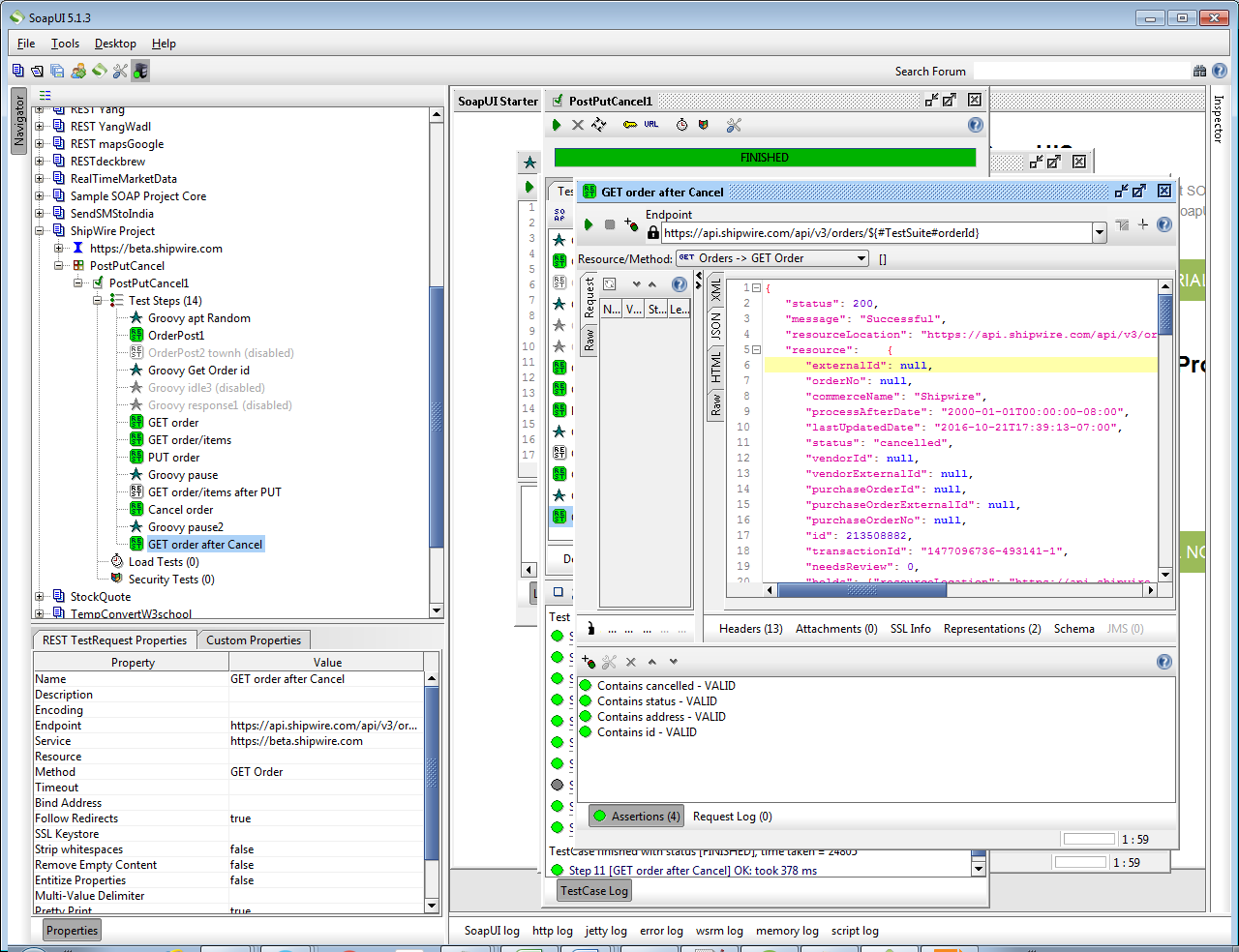
"id": **213508882**,

"transactionId": "1477096736-493141-1",

"needsReview": 0,

. . . . . . . . . . . .

Assertions :



Some orders id-s after run Test case PostPutCancel1 :

213508882

213541682

213541852