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Service Test 11.20 – Negative Testing “Fault is expected” Error



ST

By Joe Colantonio / February 15, 2012

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Issue

I recently was asked by a co-worker (Sreevani) how to use Service Test 11.20 to test for HTTP Error 500 returned from a REST service.

My first suggestion

My first suggestion was to say, “*Sure. All you need to do is use the HTTP request's checkpoints **status** code. Set the status code to equal the expected Value 500. Turn off the service, run the test and it should pass.*” That advice however, would have been wrong. As you can see below, the test actually fails when this approach is used:

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The screenshot shows the 'Property Sheet' window of Service Test 11.20. At the top, there's a red arrow pointing to the 'HTTP Requests' tab. Below it, the 'Input' section shows a URL of 'Http://...', an HTTP method of 'GET', and an HTTP version of '1.1'. The 'RequestHeaders' section contains an array of headers. In the 'Checkpoints' section, there's a table with three rows:

		Expected Value
Properties		
HTTP version	<input type="checkbox"/>	=
Status code	<input checked="" type="checkbox"/>	= 500
Status description	<input type="checkbox"/>	=

A red arrow points to the 'Status code' row where the value '500' is selected. Below the window, a large green box contains the text:

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Positive Testing

When you think about it, Service Test is behaving as you would expect when an HTTP error code 500 is received. Service Test fails the test because it expects a valid response back from the service (like 200). The HTTP 500– Internal Server Error is a general “catch all” error that means *something* has gone wrong.

That's how positive testing *should* work–checking that the service does what it was designed to do without any errors. In this case, however, we need to do some negative testing.

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Negative Testing

Negative testing is used to verify that the service did not perform a task it was not designed to perform. In this case, we need to verify the status code 500, and if it finds the expected error code 500, *pass* the test. (When testing SOAP web services in ST 11.20 there is an actual setting—“Fault is expected”—that allows you to do this.)

The screenshot shows a web page with a form for sign-up. The title of the page is "Automation Testing Made Awesome". The form contains fields for "First Name" and "Email Address", and a "Sign Up" button. To the left of the form, there is some descriptive text about automation testing and tips.

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Service Test to pass if it received a failure:

```
if ( args.ExecutionResult.Status == STExecutionStatus.ApplicationUnderTestFailure )
```

```
args.ExecutionResult.Status = STExecutionStatus.Success;
```

Place this code in the HTTP request's *AfterExecuteStepEvent* Event.

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```
public void HTTPActivity6_OnAfterExecuteStepEvent(object sender, STActivityBaseEventArgs args)
{
    if (args.ExecutionResult.Status == STExecutionStatus.ApplicationUnderTestFailure)
```

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your friends!"

Hi Joe,

I am new to QTP and ST and I am glad that your site exists.

I tried half a day to find a solution but couldn't find any.

So thank you so much for this!

Philipp

Reply



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Joe Colantonio - January 16, 2013

Philipp » Cool – thanks Philipp! Glad it helped you.

Reply

wAACwAAAAAQABAEACAkQBADs

Philipp - January 18, 2013

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wAAA

Tried, it does not work.

Even I tried to fail test with

```
args.ExecutionResult.Status == STExecutionStatus.ApplicationUnderTestFailure;
```

But test still passed.

I want to test response status against expected status programmatically and fail/pass test accordingly.

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Any suggestion?

Reply

wAACwAAAAAQABEACAkQBADS

Vineet - March 13, 2013

To programmatically handle negative test:

Check oputput parameter StatusCode on HttpRequest Activity. If it matches

fail due to HTTP500, flip status to

status.Success;

Set status to failure.

In time.

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