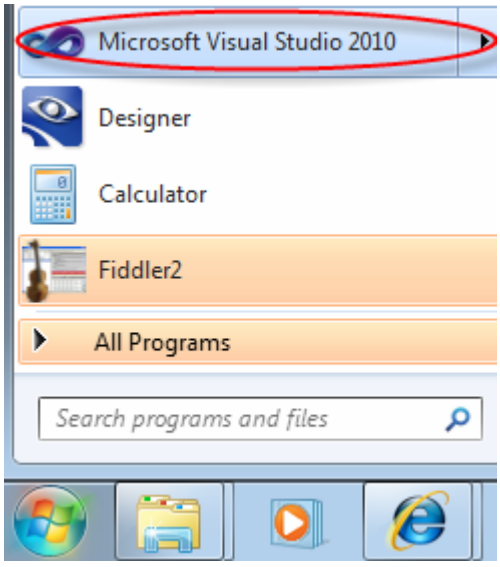
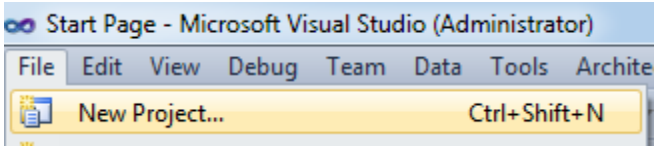
Visual Studio 2010 Load Testing Overview

The following is a brief overview of performing a basic load test using Visual Studio 2010 Ultimate:

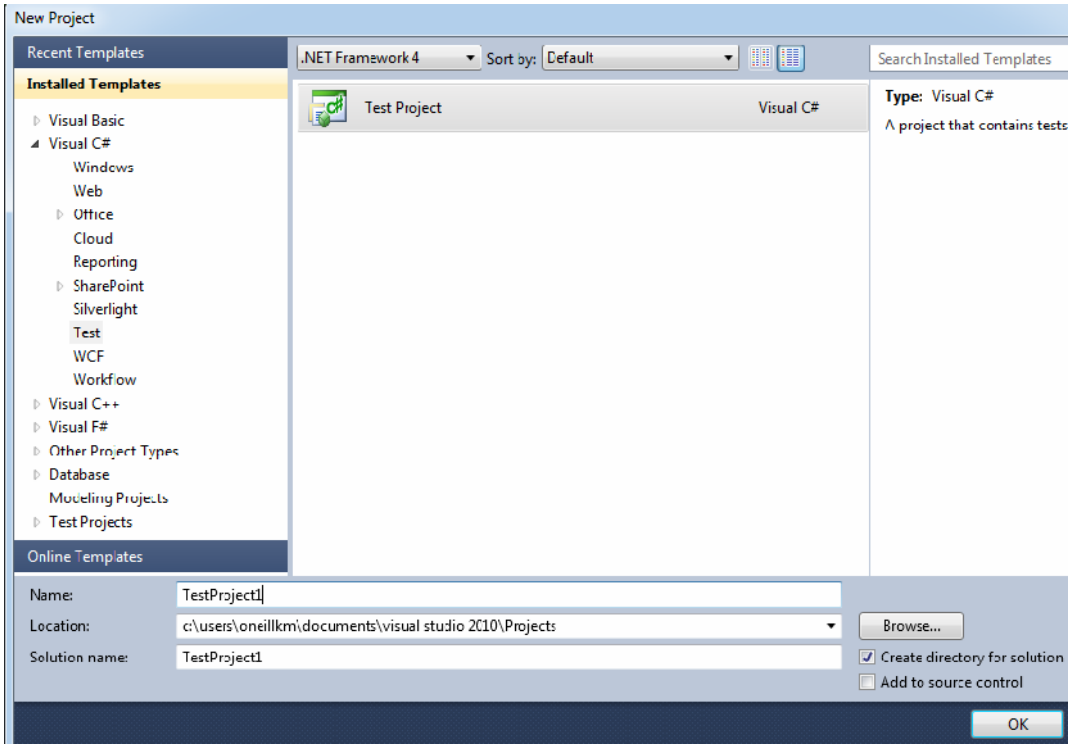
Launch Visual Studio 2010 Ultimate:



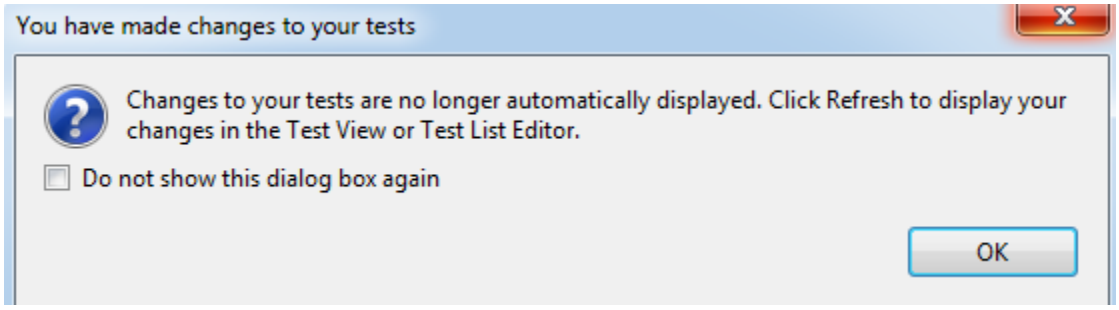
Select File -> New Project:



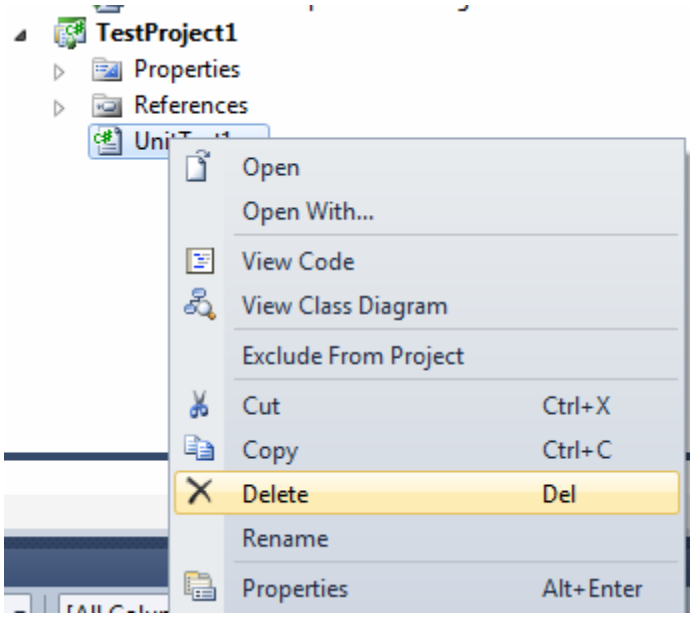
Select under Visual C# -> Test -> Test Project -> name the project and click OK:



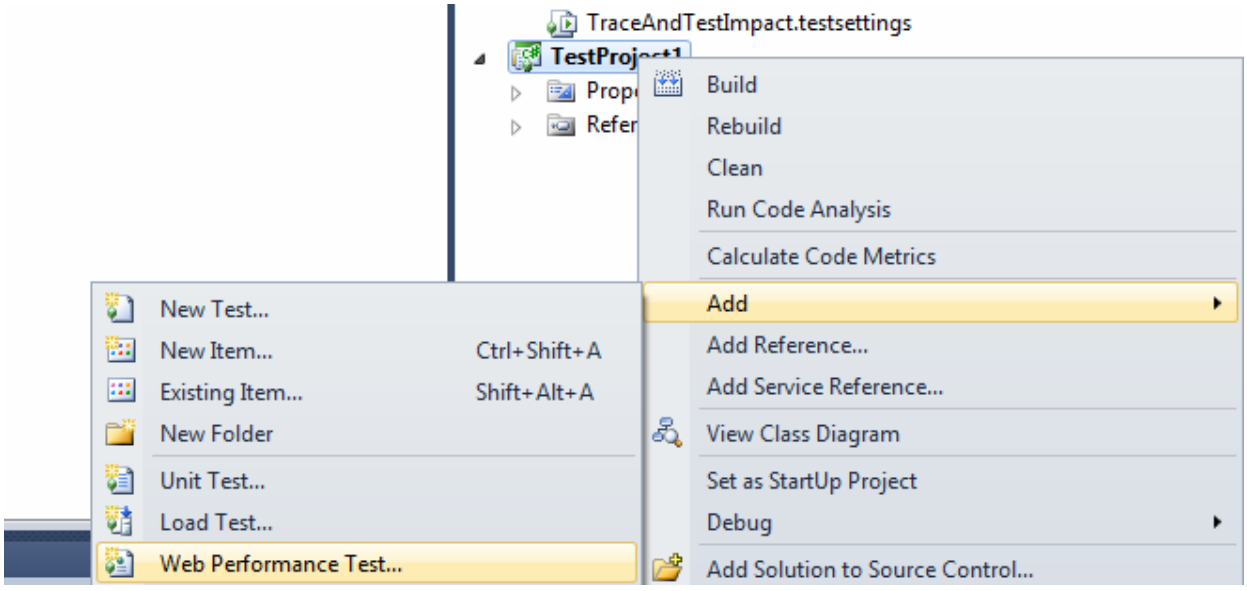
Click OK if this message displays – in this case I had already existing Tests cached:



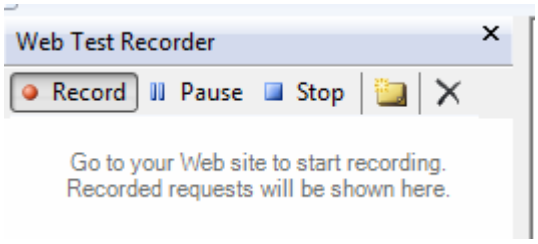
In this case we are going to perform a simple web performance test – so thus click the Unittest1.cs and delete it:



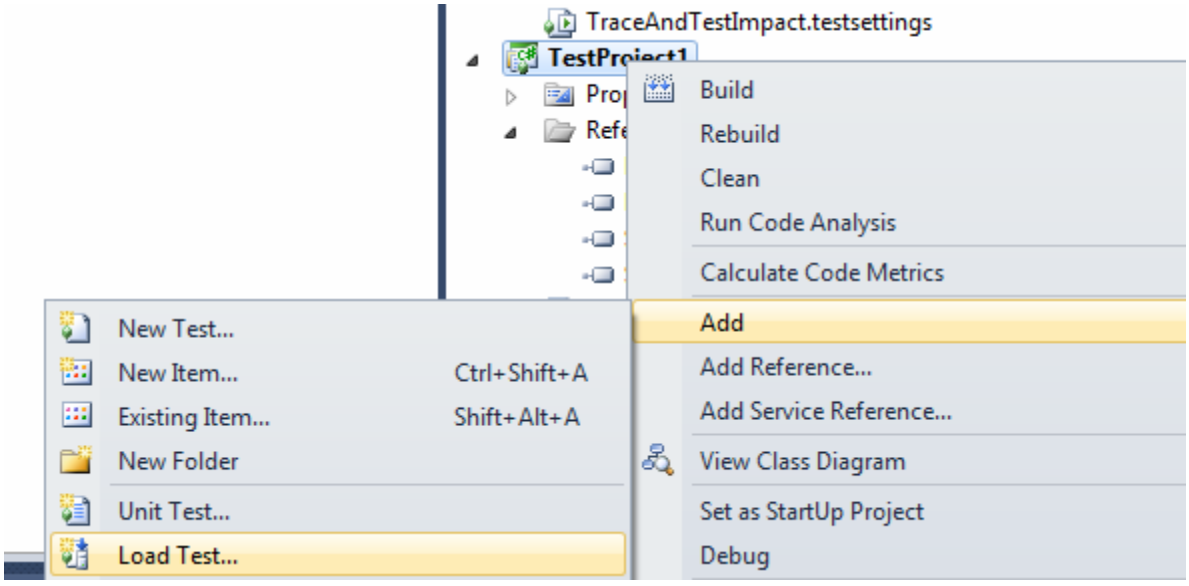
Right mouse click the Project and select Add -> Web Performance Test:



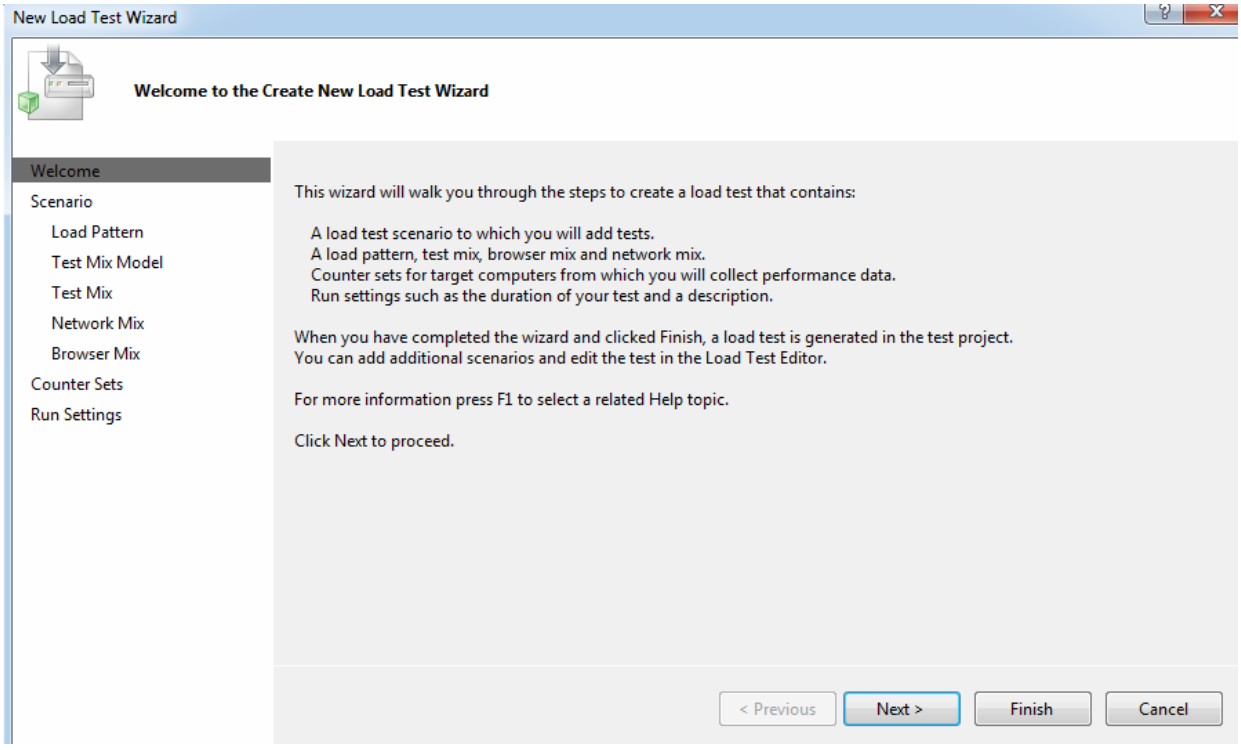
At the browser window that comes-up the Record will already be selected – therefore go to the web application and perform the desired functionality that is to be tested – when done – click Stop:



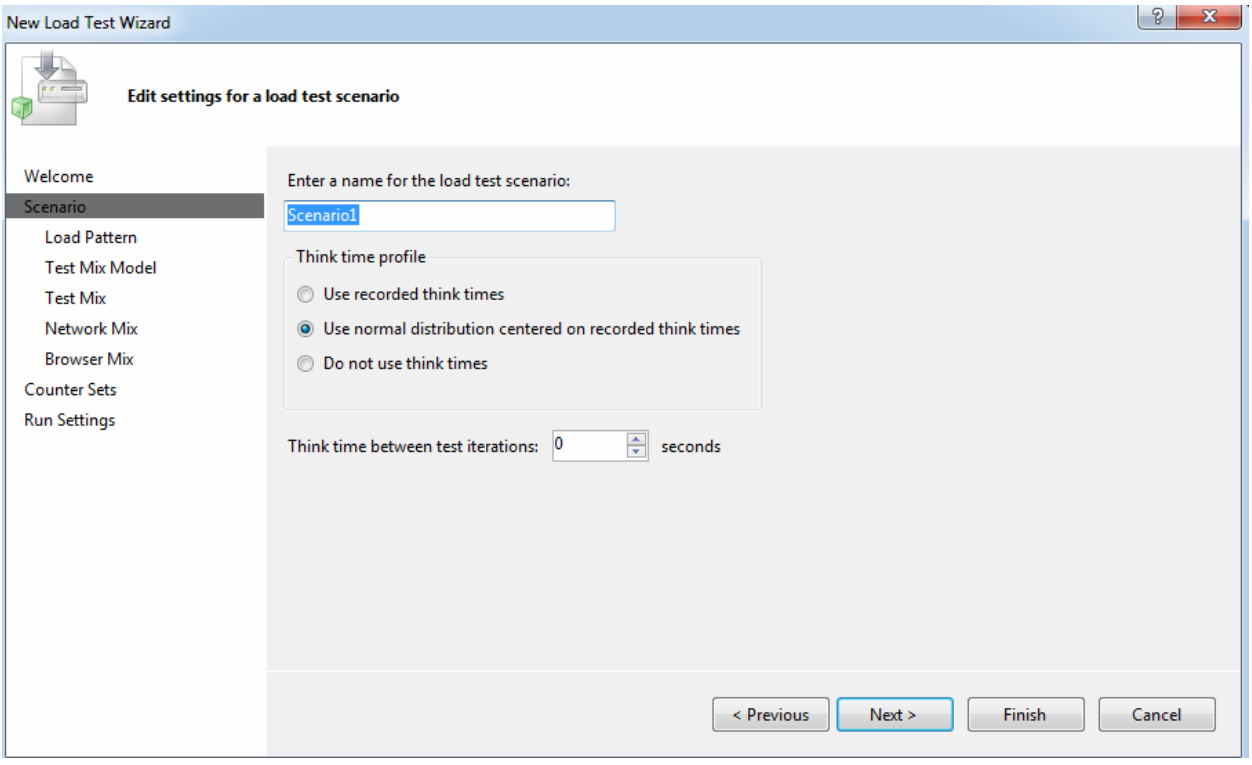
Now we will run a load test against the web performance test that was created. Therefore right mouse click the project and select Add -> Load Test:



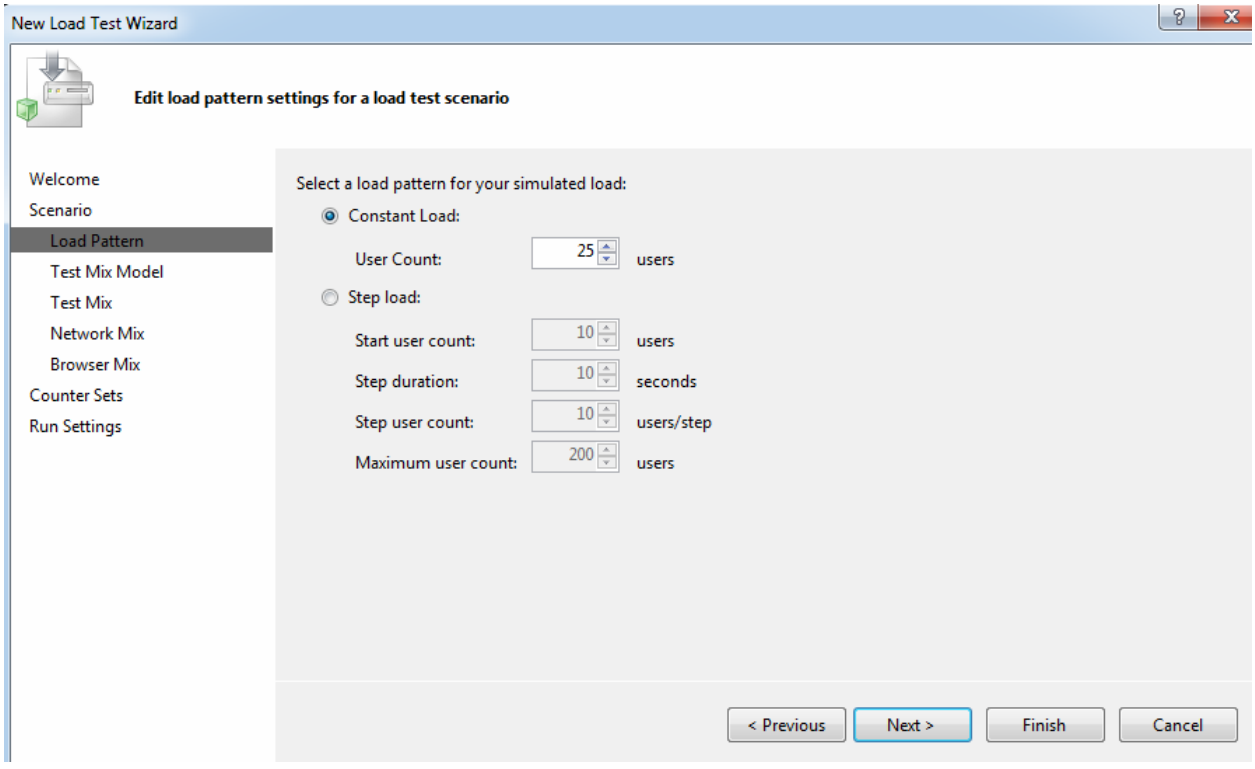
A wizard comes up – and therefore read each option carefully – at the first screen after reading the information click Next:


New Load Test Wizard
Welcome to the Create New Load Test Wizard
Welcome
Scenario
Load Pattern
Test Mix Model
Test Mix
Network Mix
Browser Mix
Counter Sets
Run Settings
This wizard will walk you through the steps to create a load test that contains:
A load test scenario to which you will add tests.
A load pattern, test mix, browser mix and network mix.
Counter sets for target computers from which you will collect performance data.
Run settings such as the duration of your test and a description.
When you have completed the wizard and clicked Finish, a load test is generated in the test project.
You can add additional scenarios and edit the test in the Load Test Editor.
For more information press F1 to select a related Help topic.
Click Next to proceed.
< Previous
Next >
Finish
Cancel

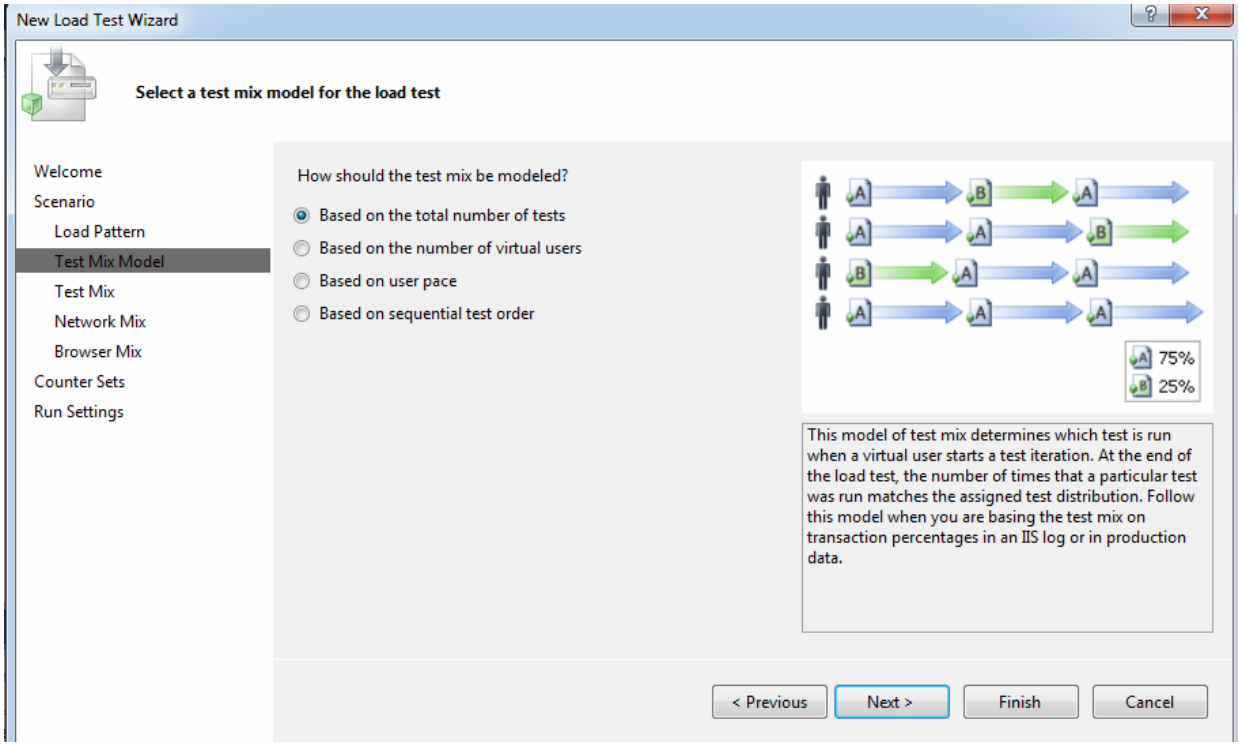
One can name the load test scenario and select the desired think time profile – when done click Next:



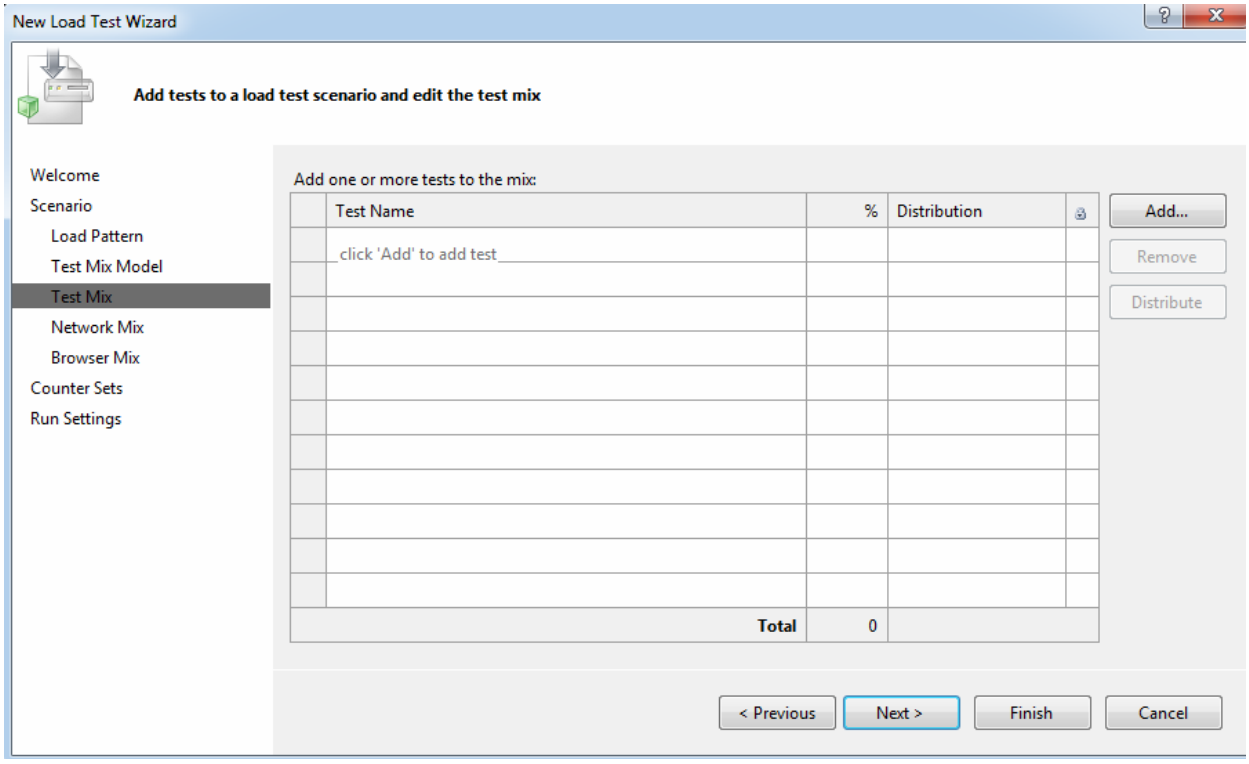
The user count can be entered and when done click Next:



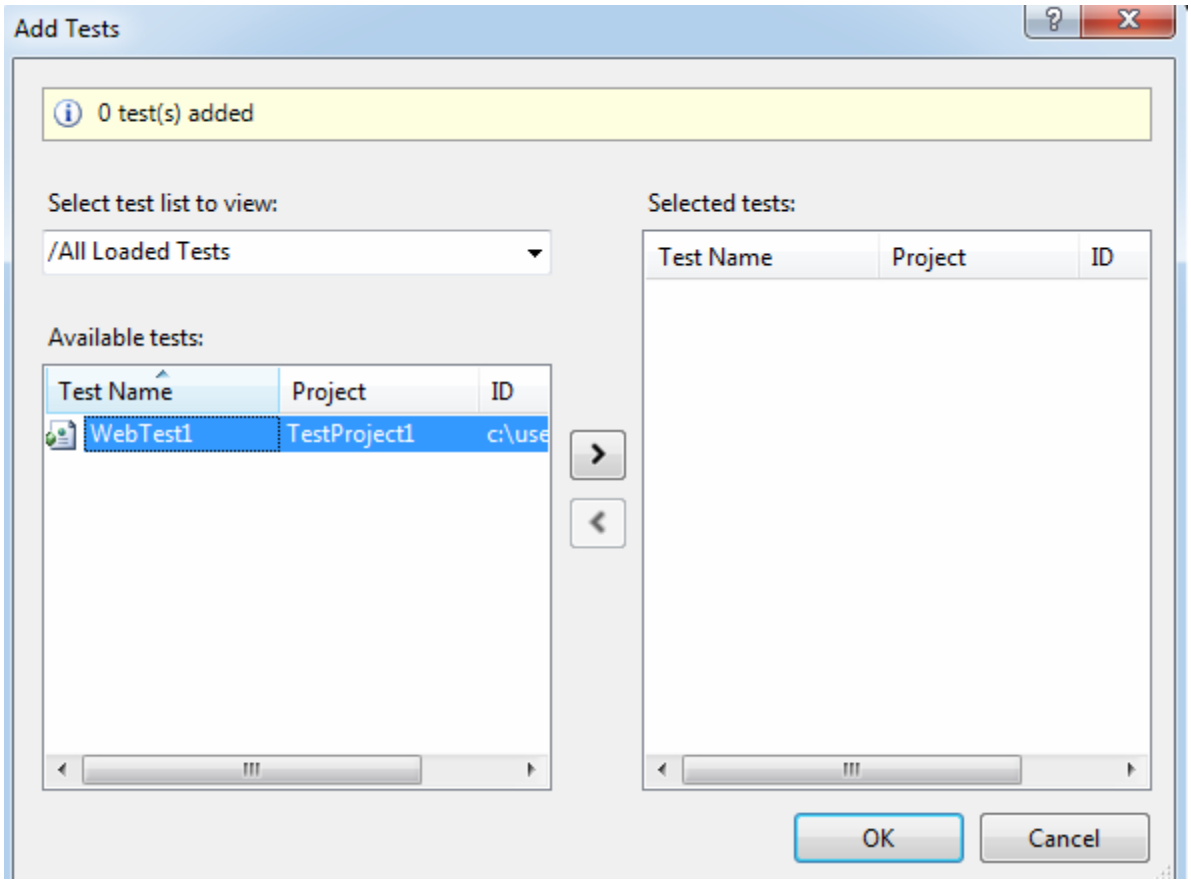
A test mix can then be selected if desired – in this case the default settings were selected:



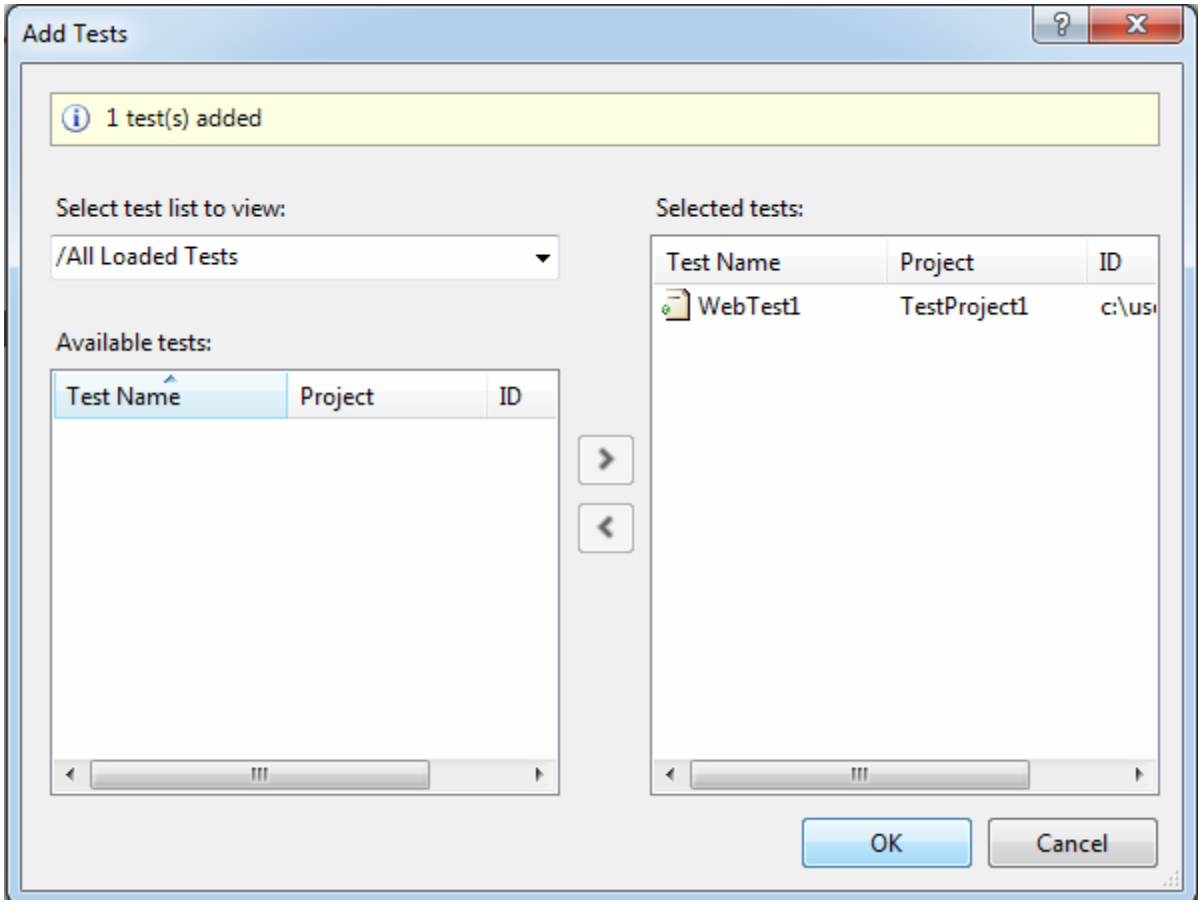
At the 'Add tests to a load test scenario and edit the text mix' Wizard screen – select Add:



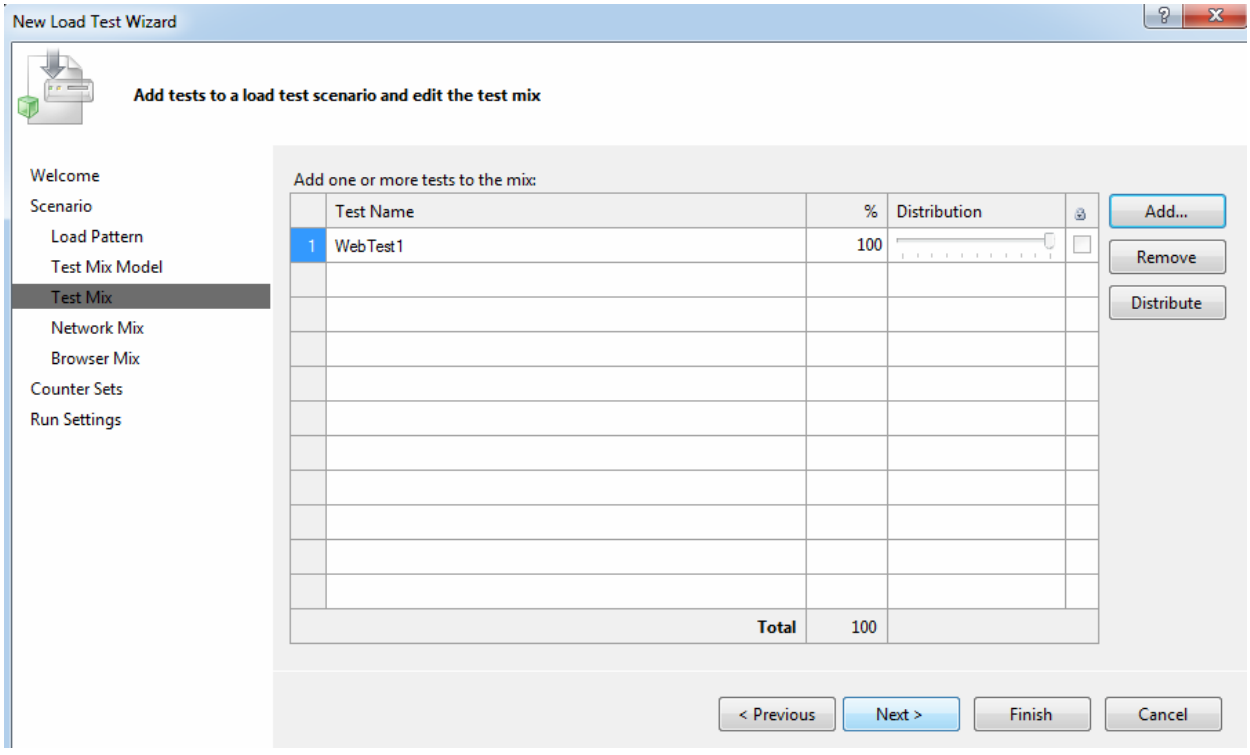
Select the desired test that is desired and select the arrow to move it to be a selected test – then click OK:



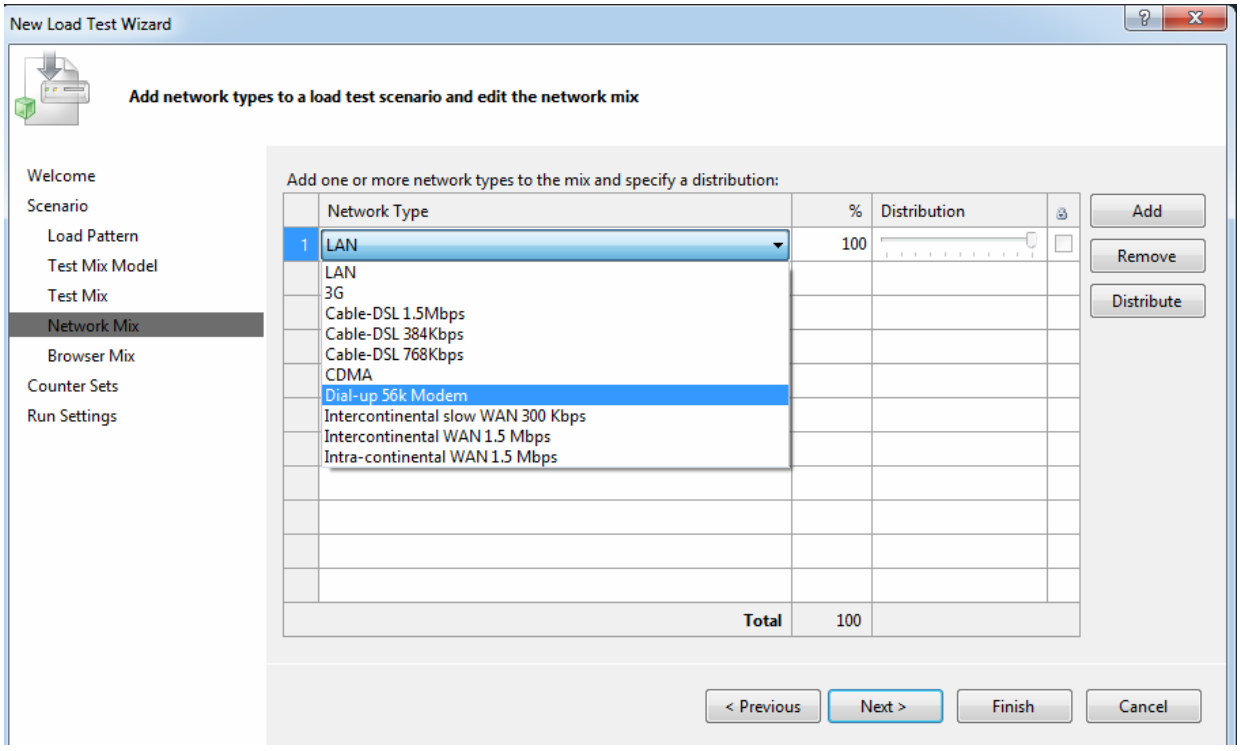
Notice that once added with success the 0 test(s) added is now 1 test(s) added – click OK:



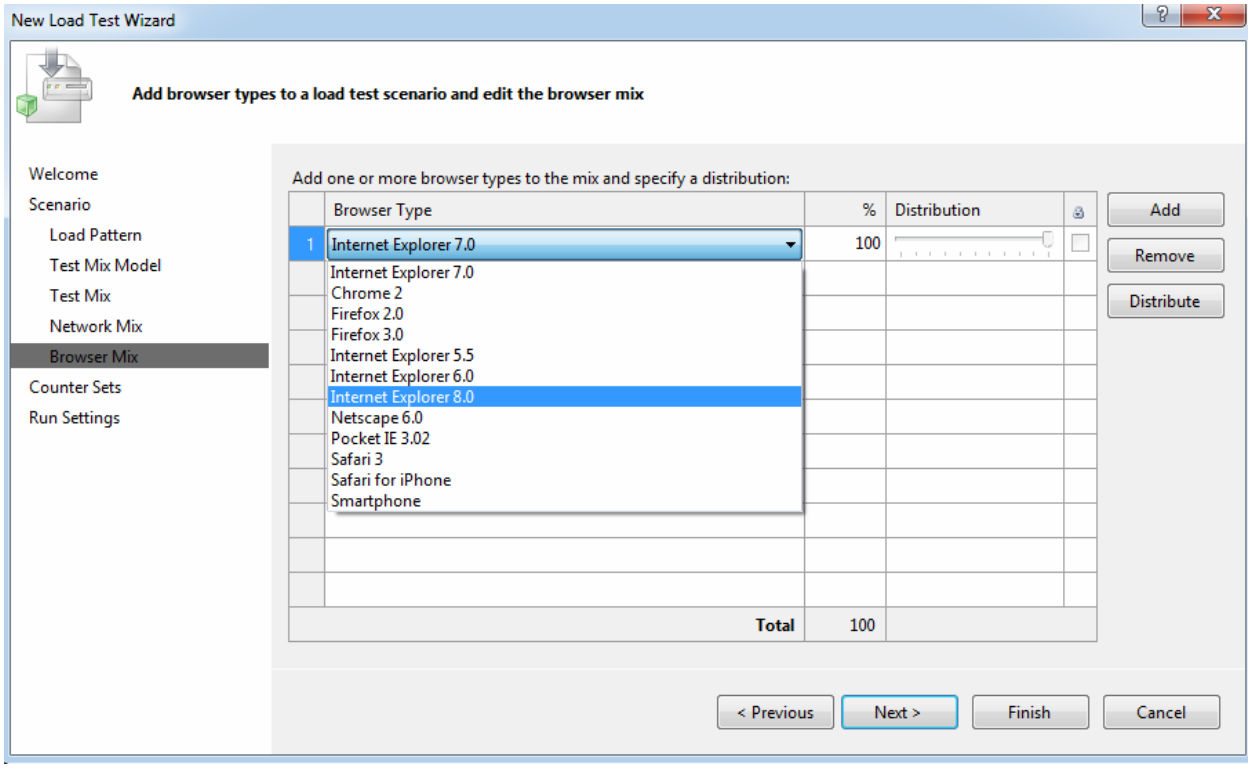
Click Next


New Load Test Wizard
Add tests to a load test scenario and edit the test mix
Welcome
Scenario
Load Pattern
Test Mix Model
Test Mix
Network Mix
Browser Mix
Counter Sets
Run Settings
Add one or more tests to the mix:
Test Name
%
Distribution
1
WebTest1
100
Total
100
Add...
Remove
Distribute
< Previous
Next >
Finish
Cancel

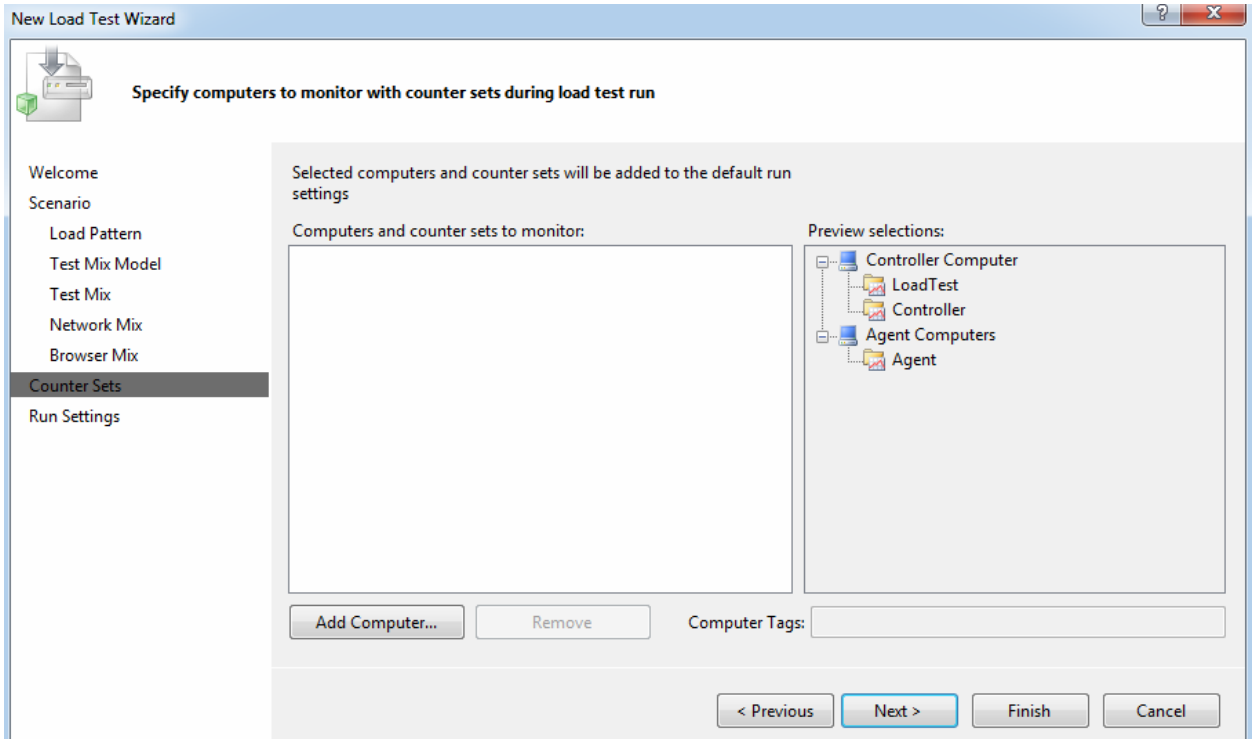
At the 'Add network types to a load test scenario and edit the network mix' – select your desired choice – in this case Dial-up 56K Modem was selected – then select Next:



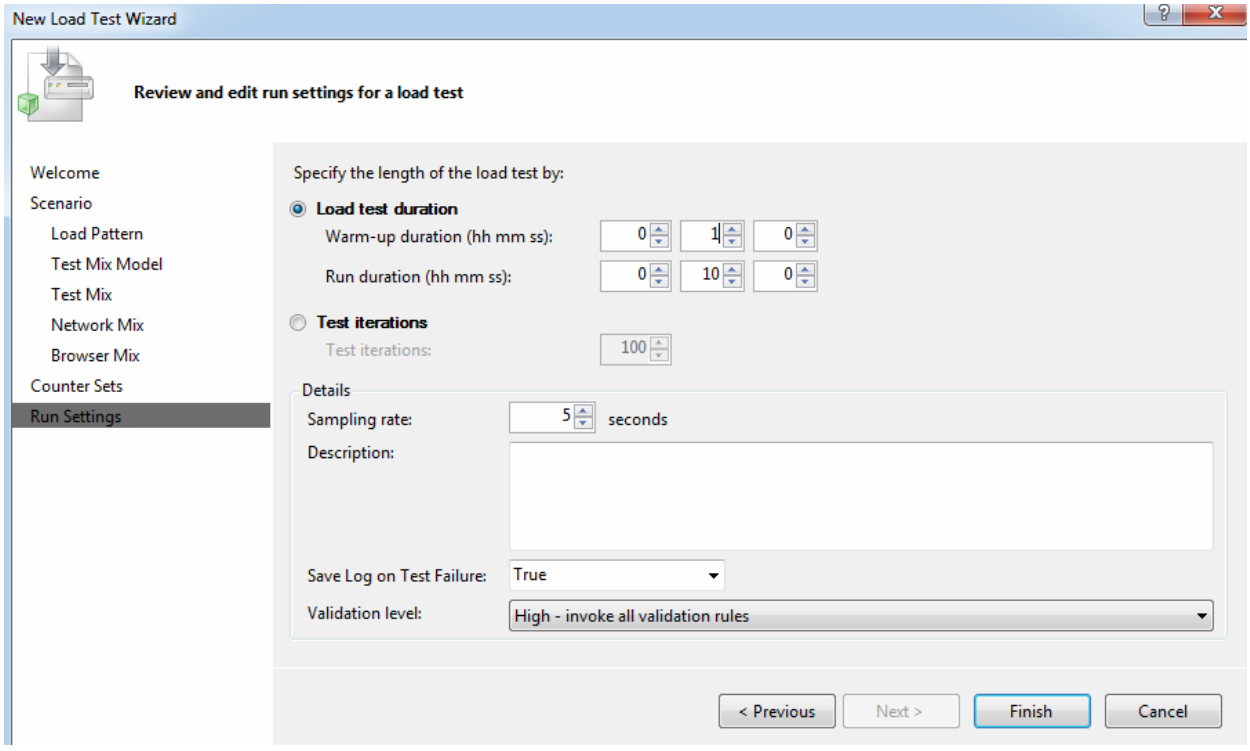
At the 'Add browser types to a load test scenario and edit the browser mix' select the desired Browser Type – in this case – Internet Explorer 8 was selected then select Next:



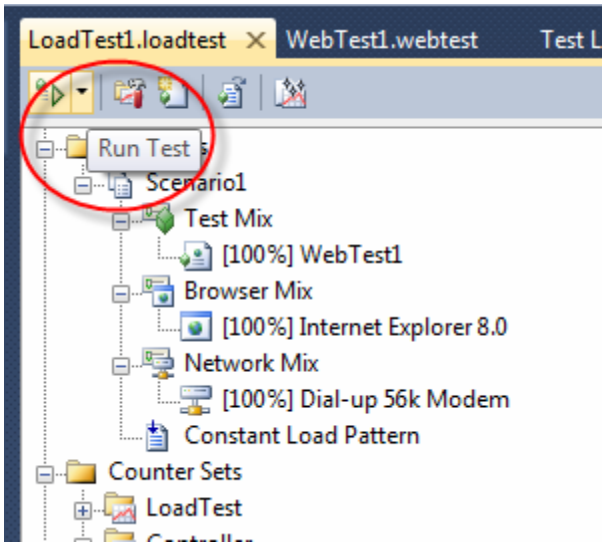
At the 'Specify computers to monitor with counter sets during load test run' – in this case Next was selected – however if so desired counter sets could be set-up and run:



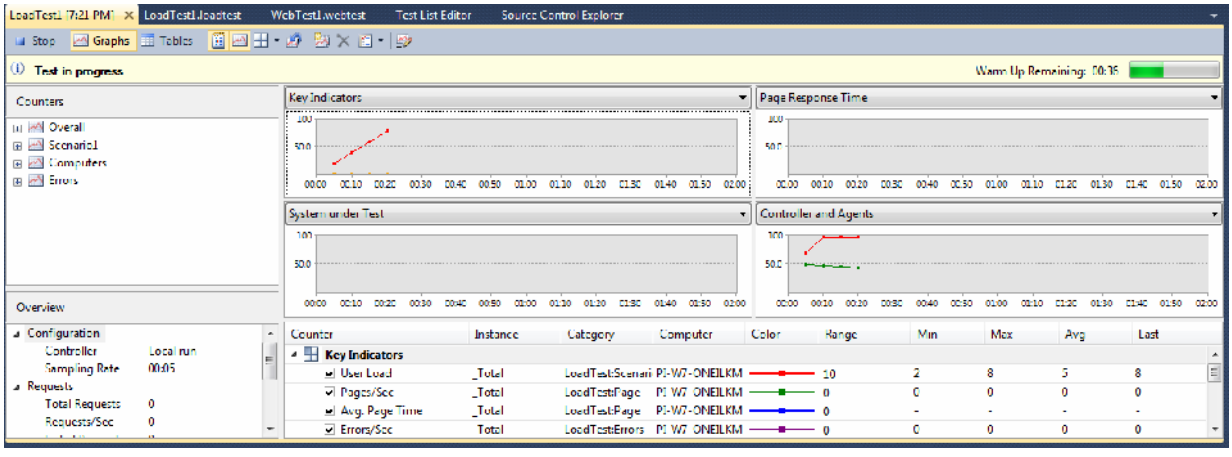
At the 'review and edit run settings for a load test' under Load test duration 1:00 was entered then Finish selected:



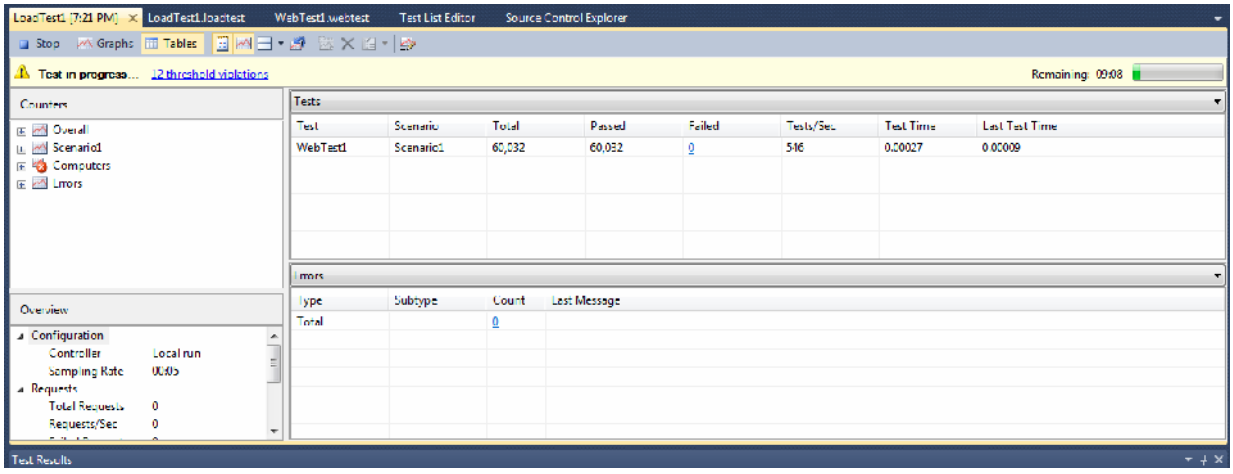
Select the Run Test found under the .loadtest that was created:



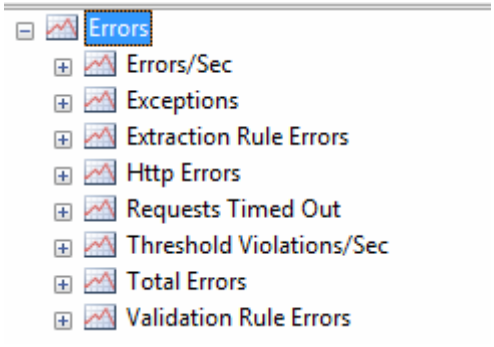
Eventually a Graph view of the test is displayed and one can view the desired format – by selecting the Tables tab if so desired :



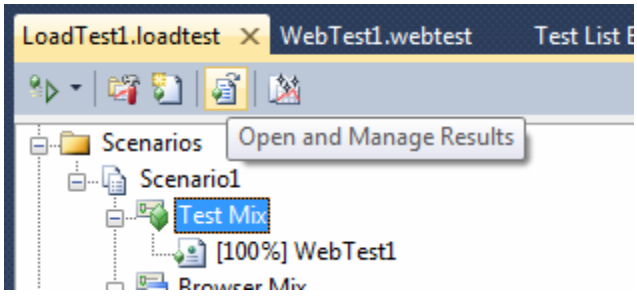
This shows the table view:



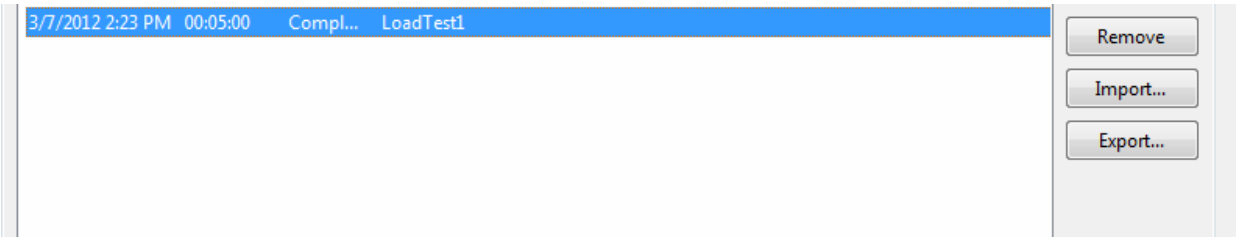
In either view the Errors tree can be selected and the desired items can be viewed:



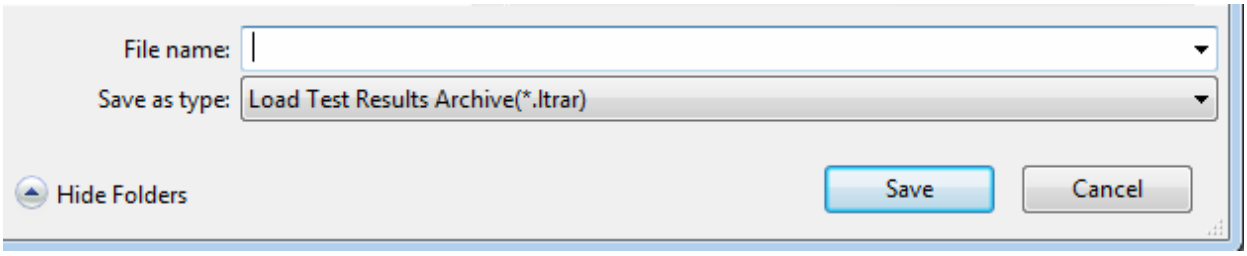
Additionally – from the .loadtest tab – the Open and Manage results can be selected:



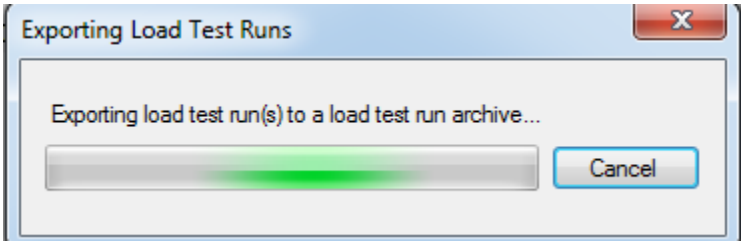
One would then select the desired loadtest and click Export:



The results can be saved as a .ltrar file:



After naming the file and clicking Save – the following is displayed:



The results can then be viewed later if needed.