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ASP.NET MVC vs ASP.NET WebForm performance comparison

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The intention of this article is to compare performance between ASP.NET WebForms and ASP.NET MVC. One the main reasons of moving from Webforms to MVC is performance, performance and performance.

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Intention of this test

The intention of this article is to compare performance between ASP.NET WebForms and ASP.NET MVC.One the main reasons of moving from Webforms to MVC is performance, performance and performance.

FYI :-In case you are new to MVC you can start from the video given at the end of the article.

Code for the test

For this test we created two projects one in ASP.NET MVC and the other in ASP.NET Webforms.We have kept the test absolutely simple.Both the projects display 20 textboxes and there is a grid loaded with 1000 records.

Below is the ASP.NET Webform code behind which binds with a grid server control.

Hide Copy Code

```
        protected void Page_Load(object sender, EventArgs e)
        {
for(int i=0;i<1000;i++)

            {

obj.Add(DateTime.Now.ToString());

            }

            GridView1.DataSource = obj;

GridView1.DataBind();

        }

    }
```

On the ASPX UI we have 20 textboxes which uses the server controls of ASP.NET Webforms.

Hide Copy Code

```
<asp:TextBox ID="TextBox1" runat="server" BackColor="#FF66FF"></asp:TextBox>

<asp:TextBox ID="TextBox2" runat="server" BackColor="#FF66FF">

<asp:TextBox ID="TextBox3" runat="server" BackColor="#FF66FF">

…….
<asp:TextBox ID="TextBox6" runat="server" BackColor="#FF66FF">
```

In ASP.NET MVC project also we have similar kind of logic. We have 20 textboxes created using HTML control and simple loop which creates HTML table.

Hide Shrink Copy Code

```
<input id="Text1" type="text" style="background-color:#FF66FF" />

<input id="Text1" type="text" style="background-color:#FF66FF" />

<input id="Text1" type="text" style="background-color:#FF66FF" />

@{
List<string> obj = new List<string>();
for (int i = 0; i < 1000; i++)

{

obj.Add(DateTime.Now.ToString());

}

}



@{

foreach (string str in obj)

      {



      }

}

<table>
Item@str
```

Out of scope

In this test we have not used JSON, Jquery , Ajax because we wanted to test performance of these platforms only and not when they get clubbed with other technical things like HTML 5 , Ajax etc.

How was the test conducted?

Test was conducted with the below specifications using VSTS and telerik load test software:-

- User load 25 users.
- Run duration of test was 10 minutes.
- Machine config DELL 8 GB Ram, Core i3
- Project was hosted in IIS 8.
- Project was created using MVC 5.
- Network LAN connection was assumed. So this test does not account for network lag for now.
- Browser in the test selected Chrome and Internet explorer.
- Multiple reading where taken during the test to average unknown events. 7 readings where taken and all readings are published in this article as reading 1 , 2 and so on.

Performance criteria

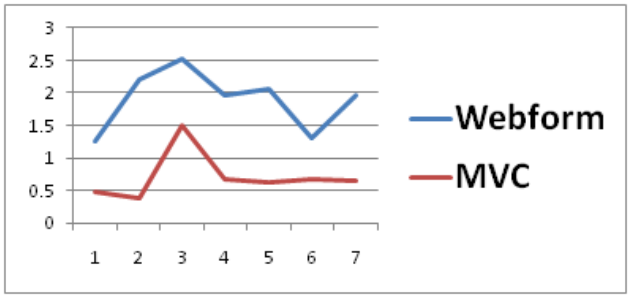
Performance was measured using two criteria's Average page response time and Response content in bytes.

Average Page response time :- This value is the average time the 25 users get the page output when the load testing is executed.

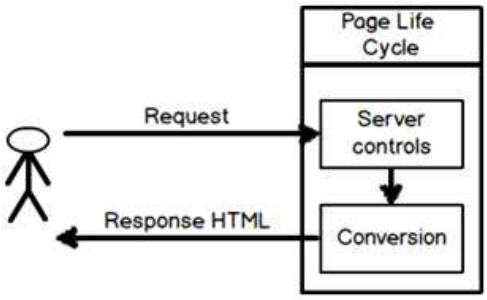
Response content length :-Number of average total bytes transferred for every request. This criteria is taken because we suspect the server controls generate more amount of HTML as compared to when we write custom HTML.

Conclusion of test

Response time



Response time of MVC was much better as compared to Webform. We found ASP.NET MVC response time was two times better than Webforms.

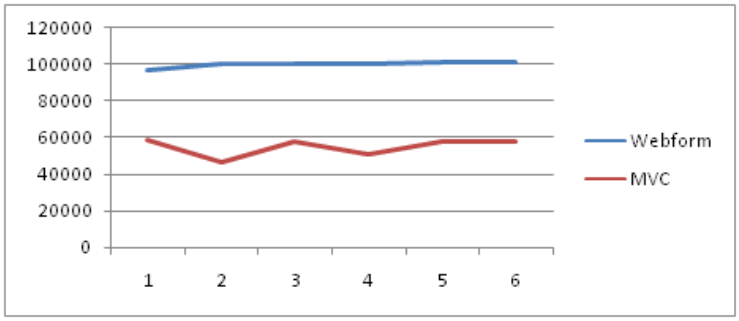


The reason is but obvious when a request is sent to Webforms there is a complex ASP.NET page life cycle which gets executed in the code behind. This code behind is nothing but sort of conversion logic which converts the ASP.NET server controls to HTML.

In ASP.NET MVC there is no code behind and no such conversion is required as the controls are in HTML format themself.

Content length

For the same kind of logic the HTML content length generatedfrom Webform was twice than MVC.

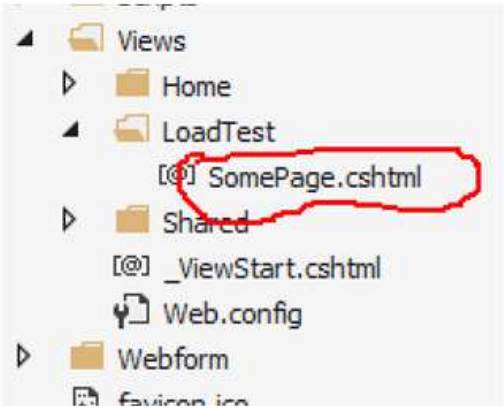


When we viewed the view source we saw huge view state data generated by Webform which was not present in MVC. This means more bandwidth will be consumed when we surf ASP.NET Webform sites as compared to ASP.NET MVC sites.

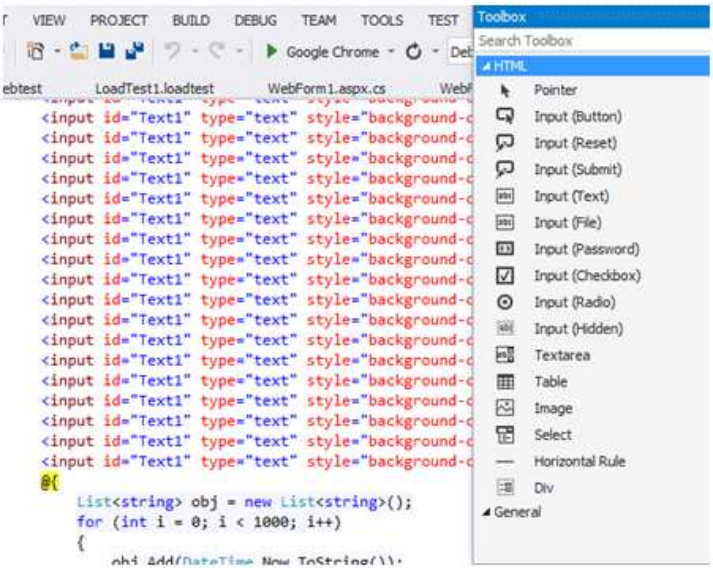
ASP.NET MVC as solution

If you see the conclusion from the load test we need a solution which does not have code behind and server controls. So when you create ASP.NET MVC projects you will not find NOcode behind and server controls.

Below is a snapshot of MVC views and you can see there is .CSHTML but there is no CSHTML.CS.



If you go a MVC view and click on toolbox it only HTML tab and all the server controls have gone of completely.



You can also read this in depth article which talk about what we have missed in ASP.NET MVC from Webforms.

Below are all the seven readings pasted for both Webform and MVC. These readings would provide you more insight on the performance factor between these technologies.

Reading 1

Web Forms

Load Test Summary

Test Run Information

Load test name	LoadTest1
Description	
Start time	1/11/2015 9:49:56 AM
End time	1/11/2015 9:59:56 AM
Warm-up duration	00:00:00
Duration	00:10:00
Controller	Local run
Number of agents	1
Run settings used	Run Settings1

Overall Results

Max User Load	25
Tests/Sec	19.2
Tests Failed	0
Avg. Test Time (sec)	1.26
Transactions/Sec	0
Avg. Transaction Time (sec)	0
Pages/Sec	19.2
Avg. Page Time (sec)	1.25
Requests/Sec	19.2
Requests Failed	0
Requests Cached Percentage	0
Avg. Response Time (sec)	1.25
Avg. Content Length (bytes)	96,425

Key Statistic: Top 5 Slowest Pages

URL (Link to More Details)	95% Page Time (sec)
http://192.168.15.141:98/WebForm/WebForm...	2.30

Key Statistic: Top 5 Slowest Tests

Name	95% Test Time (sec)
WebTest1	2.32

Test Results

Name	Scenario	Total Tests	Failed Tests (% of total)	Avg. Test Time (sec)
WebTest1	Scenario1	11,510	0 (0)	1.26

Page Results

URL (Link to More Details)	Scenario	Test	Avg. Page Time (sec)	Count
http://192.168.15.141:98/WebForm/WebForm1.aspx	Scenario1	WebTest1	1.25	11,510

Transaction Results

Name	Scenario	Test	Response Time (sec)	Elapsed Time (sec)	Count

System Under Test Resources

Machine Name	% Processor Time	Available Memory at Test Completion (Mb)

Controller and Agents Resources

Machine Name	% Processor Time	Available Memory at Test Completion (Mb)
USER-PC	43.8	855

Errors

Type	Subtype	Count	Last Message

MVC

Load Test Summary

Test Run Information

Load test name	LoadTest2
Description	
Start time	1/11/2015 12:13:49 PM
End time	1/11/2015 12:23:49 PM
Warm-up duration	00:00:00
Duration	00:10:00
Controller	Local run
Number of agents	1
Run settings used	Run Settings1

Overall Results

Max User Load	25
Tests/Sec	46.0
Tests Failed	0
Avg. Test Time (sec)	0.49
Transactions/Sec	0
Avg. Transaction Time (sec)	0
Pages/Sec	46.0
Avg. Page Time (sec)	0.48
Requests/Sec	46.0
Requests Failed	0
Requests Cached Percentage	0
Avg. Response Time (sec)	0.48
Avg. Content Length (bytes)	58,923

Key Statistic: Top 5 Slowest Pages

URL (Link to More Details)	95% Page Time (sec)
http://192.168.15.141:98/LoadTest/SomePa...	1.13

Key Statistic: Top 5 Slowest Tests

Name	95% Test Time (sec)
WebTest2	1.14

Test Results

Name	Scenario	Total Tests	Failed Tests (% of total)	Avg. Test Time (sec)
WebTest2	Scenario1	27,619	0 (0)	0.49

Page Results

URL (Link to More Details)	Scenario	Test	Avg. Page Time (sec)	Count
http://192.168.15.141:98/LoadTest/SomePage	Scenario1	WebTest2	0.48	27,619

Transaction Results

Name	Scenario	Test	Response Time (sec)	Elapsed Time (sec)	Count

System Under Test Resources

Machine Name	% Processor Time	Available Memory at Test Completion (Mb)

Controller and Agents Resources

Machine Name	% Processor Time	Available Memory at Test Completion (Mb)
USER-PC	63.0	1,012

Errors

Type	Subtype	Count	Last Message

Reading 2

Webform

Load Test Summary

Test Run Information

Load test name	LoadTest1
Description	
Start time	1/11/2015 10:25:53 AM
End time	1/11/2015 10:35:53 AM
Warm-up duration	00:00:00
Duration	00:10:00
Controller	Local run
Number of agents	1
Run settings used	Run Settings1

Overall Results

Max User Load	25
Tests/Sec	11.1
Tests Failed	0
Avg. Test Time (sec)	2.22
Transactions/Sec	0
Avg. Transaction Time (sec)	0
Pages/Sec	11.1

Avg. Page Time (sec)	2.20
Requests/Sec	11.1
Requests Failed	0
Requests Cached Percentage	0
Avg. Response Time (sec)	2.20
Avg. Content Length (bytes)	100,276

Key Statistic: Top 5 Slowest Pages

URL (Link to More Details)	95% Page Time (sec)
http://192.168.15.141:98/WebForm/WebForm...	5.77

Key Statistic: Top 5 Slowest Tests

Name	95% Test Time (sec)
WebTest1	5.80

Test Results

Name	Scenario	Total Tests	Failed Tests (% of total)	Avg. Test Time (sec)
WebTest1	Scenario1	6,640	0 (0)	2.22

Page Results

URL (Link to More Details)	Scenario	Test	Avg. Page Time (sec)	Count
http://192.168.15.141:98/WebForm/WebForm1.aspx	Scenario1	WebTest1	2.20	6,640

Transaction Results

Name	Scenario	Test	Response Time (sec)	Elapsed Time (sec)	Count

System Under Test Resources

Machine Name	% Processor Time	Available Memory at Test Completion (Mb)

Controller and Agents Resources

Machine Name	% Processor Time	Available Memory at Test Completion (Mb)
USER-PC	61.2	841

Errors

Type	Subtype	Count	Last Message

MVC

Load Test Summary

Test Run Information

Load test name	LoadTest2
Description	
Start time	1/11/2015 1:03:06 PM
End time	1/11/2015 1:13:06 PM
Warm-up duration	00:00:00
Duration	00:10:00
Controller	Local run
Number of agents	1
Run settings used	Run Settings1

Overall Results

Max User Load	25
Tests/Sec	52.2
Tests Failed	0
Avg. Test Time (sec)	0.39
Transactions/Sec	0
Avg. Transaction Time (sec)	0
Pages/Sec	52.2
Avg. Page Time (sec)	0.39
Requests/Sec	52.2
Requests Failed	0
Requests Cached Percentage	0
Avg. Response Time (sec)	0.39
Avg. Content Length (bytes)	46,281

Key Statistic: Top 5 Slowest Pages

URL (Link to More Details)	95% Page Time (sec)
http://192.168.15.141:98/LoadTest/SomePa...	1.02

Key Statistic: Top 5 Slowest Tests

Name	95% Test Time (sec)
WebTest2	1.03

Test Results

Name	Scenario	Total Tests	Failed Tests (% of total)	Avg. Test Time (sec)
WebTest2	Scenario1	31,330	0 (0)	0.39

Page Results

URL (Link to More Details)	Scenario	Test	Avg. Page Time (sec)	Count
http://192.168.15.141:98/LoadTest/SomePage	Scenario1	WebTest2	0.39	31,330

Transaction Results

Name	Scenario	Test	Response Time (sec)	Elapsed Time (sec)	Count

System Under Test Resources

Machine Name	% Processor Time	Available Memory at Test Completion (Mb)

Controller and Agents Resources

Machine Name	% Processor Time	Available Memory at Test Completion (Mb)
USER-PC	65.6	855

Errors

Type	Subtype	Count	Last Message

Reading 3

WebForm

Load Test Summary

Test Run Information

Load test name	LoadTest1
Description	
Start time	1/11/2015 11:04:01 AM
End time	1/11/2015 11:14:01 AM
Warm-up duration	00:00:00
Duration	00:10:00
Controller	Local run
Number of agents	1
Run settings used	Run Settings1

Overall Results

Max User Load	25
Tests/Sec	9.66
Tests Failed	0
Avg. Test Time (sec)	2.54
Transactions/Sec	0
Avg. Transaction Time (sec)	0
Pages/Sec	9.66
Avg. Page Time (sec)	2.52
Requests/Sec	9.66
Requests Failed	0
Requests Cached Percentage	0
Avg. Response Time (sec)	2.52
Avg. Content Length (bytes)	99,769

Key Statistic: Top 5 Slowest Pages

URL (Link to More Details)	95% Page Time (sec)
http://192.168.15.141:98/WebForm/WebForm...	9.77

Key Statistic: Top 5 Slowest Tests

Name	95% Test Time (sec)
WebTest1	9.77

Test Results

Name	Scenario	Total Tests	Failed Tests (% of total)	Avg. Test Time (sec)

WebTest1	Scenario1	5,795	0 (0)	2.54

Page Results

URL (Link to More Details)	Scenario	Test	Avg. Page Time (sec)	Count
http://192.168.15.141:98/WebForm/WebForm1.aspx	Scenario1	WebTest1	2.52	5,795

Transaction Results

Name	Scenario	Test	Response Time (sec)	Elapsed Time (sec)	Count

System Under Test Resources

Machine Name	% Processor Time	Available Memory at Test Completion (Mb)

Controller and Agents Resources

Machine Name	% Processor Time	Available Memory at Test Completion (Mb)
USER-PC	61.0	875

Errors

Type	Subtype	Count	Last Message

MVC

Load Test Summary

Test Run Information

Load test name	LoadTest2
Description	
Start time	1/11/2015 1:28:54 PM
End time	1/11/2015 1:38:54 PM
Warm-up duration	00:00:00
Duration	00:10:00
Controller	Local run
Number of agents	1
Run settings used	Run Settings1

Overall Results

Max User Load	25
Tests/Sec	16.1
Tests Failed	0
Avg. Test Time (sec)	1.50
Transactions/Sec	0
Avg. Transaction Time (sec)	0
Pages/Sec	16.1
Avg. Page Time (sec)	1.49
Requests/Sec	16.1
Requests Failed	0
Requests Cached Percentage	0
Avg. Response Time (sec)	1.49
Avg. Content Length (bytes)	57,923

Key Statistic: Top 5 Slowest Pages

URL (Link to More Details)	95% Page Time (sec)
http://192.168.15.141:98/LoadTest/SomePa...	2.93

Key Statistic: Top 5 Slowest Tests

Name	95% Test Time (sec)
WebTest2	2.94

Test Results

Name	Scenario	Total Tests	Failed Tests (% of total)	Avg. Test Time (sec)
WebTest2	Scenario1	9,647	0 (0)	1.50

Page Results

URL (Link to More Details)	Scenario	Test	Avg. Page Time (sec)	Count
http://192.168.15.141:98/LoadTest/SomePage	Scenario1	WebTest2	1.49	9,647

Transaction Results

Name	Scenario	Test	Response Time (sec)	Elapsed Time (sec)	Count

System Under Test Resources

Machine Name % Processor Time Available Memory at Test Completion (Mb)

Controller and Agents Resources

Machine Name	% Processor Time	Available Memory at Test Completion (Mb)
USER-PC	31.7	862

Errors

Type	Subtype	Count	Last Message

Reading 4

WebForm

Load Test Summary

Test Run Information

Load test name	LoadTest1
Description	
Start time	1/11/2015 11:28:39 AM
End time	1/11/2015 11:38:39 AM
Warm-up duration	00:00:00
Duration	00:10:00
Controller	Local run
Number of agents	1
Run settings used	Run Settings1

Overall Results

Max User Load	25
Tests/Sec	11.8
Tests Failed	7
Avg. Test Time (sec)	2.08
Transactions/Sec	0
Avg. Transaction Time (sec)	0
Pages/Sec	11.8
Avg. Page Time (sec)	2.06
Requests/Sec	11.8
Requests Failed	7
Requests Cached Percentage	0
Avg. Response Time (sec)	2.06
Avg. Content Length (bytes)	100,205

Key Statistic: Top 5 Slowest Pages

URL (Link to More Details)	95% Page Time (sec)
http://192.168.15.141:98/WebForm/WebForm...	5.58

Key Statistic: Top 5 Slowest Tests

Name	95% Test Time (sec)
WebTest1	5.60

Test Results

Name	Scenario	Total Tests	Failed Tests (% of total)	Avg. Test Time (sec)
WebTest1	Scenario1	7,073	7 (0.099)	2.08

Page Results

URL (Link to More Details)	Scenario	Test	Avg. Page Time (sec)	Count
http://192.168.15.141:98/WebForm/WebForm1.aspx	Scenario1	WebTest1	2.06	7,073

Transaction Results

Name	Scenario	Test	Response Time (sec)	Elapsed Time (sec)	Count

System Under Test Resources

Machine Name	% Processor Time	Available Memory at Test Completion (Mb)
USER-PC	75.8	922

Errors

Type	Subtype	Count	Last Message
Http Error	500 - InternalServerError	7	500 - InternalServerError

MVC

Load Test Summary

Test Run Information

Load test name	LoadTest2
Description	
Start time	1/11/2015 1:17:12 PM
End time	1/11/2015 1:27:12 PM
Warm-up duration	00:00:00
Duration	00:10:00
Controller	Local run
Number of agents	1
Run settings used	Run Settings1

Overall Results

Max User Load	25
Tests/Sec	30.8
Tests Failed	0
Avg. Test Time (sec)	0.65
Transactions/Sec	0
Avg. Transaction Time (sec)	0
Pages/Sec	30.8
Avg. Page Time (sec)	0.64
Requests/Sec	30.8
Requests Failed	0
Requests Cached Percentage	0
Avg. Response Time (sec)	0.64
Avg. Content Length (bytes)	50,657

Key Statistic: Top 5 Slowest Pages

URL (Link to More Details)	95% Page Time (sec)
http://192.168.15.141:98/LoadTest/SomePa...	1.70

Key Statistic: Top 5 Slowest Tests

Name	95% Test Time (sec)
WebTest2	1.72

Test Results

Name	Scenario	Total Tests	Failed Tests (% of total)	Avg. Test Time (sec)
WebTest2	Scenario1	18,483	0 (0)	0.65

Page Results

URL (Link to More Details)	Scenario	Test	Avg. Page Time (sec)	Count
http://192.168.15.141:98/LoadTest/SomePage	Scenario1	WebTest2	0.64	18,484

Transaction Results

Name	Scenario	Test	Response Time (sec)	Elapsed Time (sec)	Count

System Under Test Resources

Machine Name	% Processor Time	Available Memory at Test Completion (Mb)
USER-PC	43.3	854

Errors

Type	Subtype	Count	Last Message

Reading 5

Webform

Load Test Summary

Test Run Information

Load test name	LoadTest1
Description	
Start time	1/11/2015 1:40:52 PM
End time	1/11/2015 1:50:52 PM

Warm-up duration	00:00:00
Duration	00:10:00
Controller	Local run
Number of agents	1
Run settings used	Run Settings1

Overall Results

Max User Load	25
Tests/Sec	18.8
Tests Failed	0
Avg. Test Time (sec)	1.32
Transactions/Sec	0
Avg. Transaction Time (sec)	0
Pages/Sec	18.8
Avg. Page Time (sec)	1.31
Requests/Sec	18.8
Requests Failed	0
Requests Cached Percentage	0
Avg. Response Time (sec)	1.31
Avg. Content Length (bytes)	100,607

Key Statistic: Top 5 Slowest Pages

URL (Link to More Details)	95% Page Time (sec)
http://192.168.15.141:98/WebForm/WebForm...	2.55

Key Statistic: Top 5 Slowest Tests

Name	95% Test Time (sec)
WebTest1	2.56

Test Results

Name	Scenario	Total Tests	Failed Tests (% of total)	Avg. Test Time (sec)
WebTest1	Scenario1	11,261	0 (0)	1.32

Page Results

URL (Link to More Details)	Scenario	Test	Avg. Page Time (sec)	Count
http://192.168.15.141:98/WebForm/WebForm1.aspx	Scenario1	WebTest1	1.31	11,261

Transaction Results

Name	Scenario	Test	Response Time (sec)	Elapsed Time (sec)	Count

6 System Under Test Resources

Machine Name	% Processor Time	Available Memory at Test Completion (Mb)
USER-PC	60.8	891

6 Errors

Type	Subtype	Count	Last Message

MVC

Load Test Summary

Test Run Information

Load test name	LoadTest2
Description	
Start time	1/11/2015 2:30:38 PM
End time	1/11/2015 2:40:38 PM
Warm-up duration	00:00:00
Duration	00:10:00
Controller	Local run
Number of agents	1
Run settings used	Run Settings1

Overall Results

Max User Load	25
Tests/Sec	34.3
Tests Failed	0
Avg. Test Time (sec)	0.68
Transactions/Sec	0
Avg. Transaction Time (sec)	0

Pages/Sec	34.3
Avg. Page Time (sec)	0.68
Requests/Sec	34.3
Requests Failed	0
Requests Cached Percentage	0
Avg. Response Time (sec)	0.68
Avg. Content Length (bytes)	57,923

Key Statistic: Top 5 Slowest Pages

URL (Link to More Details)	95% Page Time (sec)
http://192.168.15.141:98/LoadTest/SomePa...	1.60

Key Statistic: Top 5 Slowest Tests

Name	95% Test Time (sec)
WebTest2	1.61

6 Test Results

Name	Scenario	Total Tests	Failed Tests (% of total)	Avg. Test Time (sec)
WebTest2	Scenario1	20,603	0 (0)	0.68

6 Page Results

URL (Link to More Details)	Scenario	Test	Avg. Page Time (sec)	Count
http://192.168.15.141:98/LoadTest/SomePage	Scenario1	WebTest1	0.68	20,603

6 Transaction Results

Name	Scenario	Test	Response Time (sec)	Elapsed Time (sec)	Count

6 System Under Test Resources

Machine Name	% Processor Time	Available Memory at Test Completion (Mb)
USER-PC	54.4	915

6 Errors

Type	Subtype	Count	Last Message

Reading 6

Webform

Load Test Summary

Test Run Information

Load test name	LoadTest1
Description	
Start time	1/11/2015 2:15:21 PM
End time	1/11/2015 2:25:21 PM
Warm-up duration	00:00:00
Duration	00:10:00
Controller	Local run
Number of agents	1
Run settings used	Run Settings1

Overall Results

Max User Load	25
Tests/Sec	10.7
Tests Failed	0
Avg. Test Time (sec)	1.98
Transactions/Sec	0
Avg. Transaction Time (sec)	0
Pages/Sec	10.7
Avg. Page Time (sec)	1.96
Requests/Sec	10.7
Requests Failed	0
Requests Cached Percentage	0
Avg. Response Time (sec)	1.96
Avg. Content Length (bytes)	101,007

Key Statistic: Top 5 Slowest Pages

URL (Link to More Details)	95% Page Time (sec)

http://192.168.15.141:98/WebForm/WebForm... 3.77

Key Statistic: Top 5 Slowest Tests

Name	95% Test Time (sec)
WebTest1	3.79

Test Results

Name	Scenario	Total Tests	Failed Tests (% of total)	Avg. Test Time (sec)
WebTest1	Scenario1	6,395	0 (0)	1.98

Page Results

URL (Link to More Details)	Scenario	Test	Avg. Page Time (sec)	Count
http://192.168.15.141:98/WebForm/WebForm1.aspx	Scenario1	WebTest1	1.96	6,395

Transaction Results

Name	Scenario	Test	Response Time (sec)	Elapsed Time (sec)	Count

System Under Test Resources

Machine Name	% Processor Time	Available Memory at Test Completion (Mb)

Controller and Agents Resources

Machine Name	% Processor Time	Available Memory at Test Completion (Mb)
USER-PC	60.4	188

Errors

Type	Subtype	Count	Last Message

MVC

Load Test Summary

Test Run Information

Load test name	LoadTest2
Description	
Start time	1/11/2015 2:41:57 PM
End time	1/11/2015 2:51:57 PM
Warm-up duration	00:00:00
Duration	00:10:00
Controller	Local run
Number of agents	1
Run settings used	Run Settings1

Overall Results

Max User Load	25
Tests/Sec	20.4
Tests Failed	0
Avg. Test Time (sec)	0.67
Transactions/Sec	0
Avg. Transaction Time (sec)	0
Pages/Sec	20.4
Avg. Page Time (sec)	0.66
Requests/Sec	20.4
Requests Failed	4
Requests Cached Percentage	0
Avg. Response Time (sec)	0.66
Avg. Content Length (bytes)	57,904

Key Statistic: Top 5 Slowest Pages

URL (Link to More Details)	95% Page Time (sec)
http://192.168.15.141:98/LoadTest/SomePa...	1.38

Key Statistic: Top 5 Slowest Tests

Name	95% Test Time (sec)
WebTest2	1.39

Test Results

Name	Scenario	Total Tests	Failed Tests (% of total)	Avg. Test Time (sec)
WebTest2	Scenario1	12,220	4 (0.033)	0.67

6 Page Results

URL (Link to More Details)	Scenario	Test	Avg. Page Time (sec)	Count
http://192.168.15.141:98/LoadTest/SomePage	Scenario1	WebTest2	0.66	12,220

6 Transaction Results

Name	Scenario	Test	Response Time (sec)	Elapsed Time (sec)	Count

6 System Under Test Resources

Machine Name	% Processor Time	Available Memory at Test Completion (Mb)

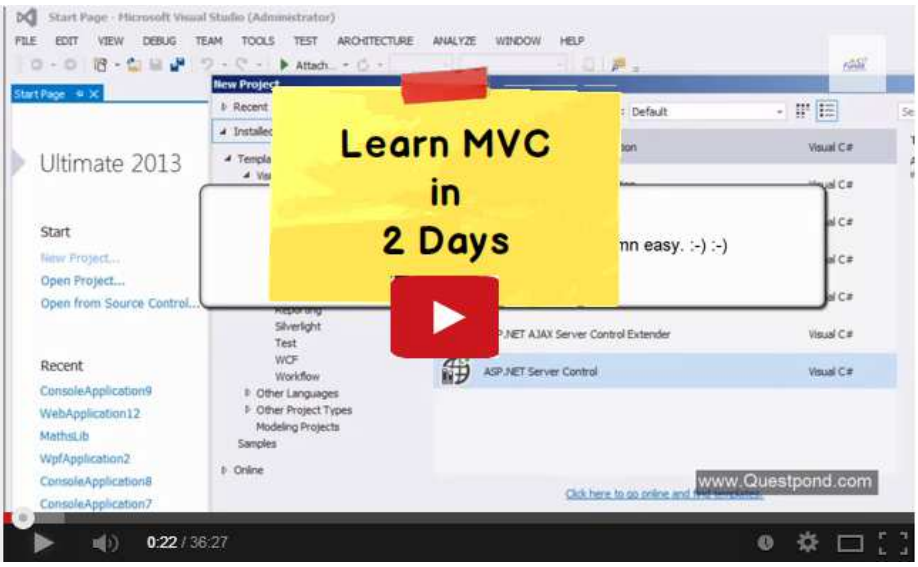
6 Controller and Agents Resources

Machine Name	% Processor Time	Available Memory at Test Completion (Mb)
USER-PC	59.0	852

6 Errors

Type	Subtype	Count	Last Message
Exception	SocketException	4	An existing connection was forcibly closed by the remote host

So if you are convinced that ASP.NET MVC is the way to go ahead. How about starting to Learn MVC right away now. Below is an awesome ASP.NET MVC video which teaches MVC in 16 hours flat.



(MUF) Must used Feature approach of testing

Lot of developers would raise eyebrows on the above test stating that: -

- We have option of disabling viewstate.
- We have option of using HTML over server controls
- And so on.

Yes, we agree completely that webforms can be tweaked to run in an optimal way and they can have near by the same performance as ASP.NET MVC.

But this test followed the most used feature approach. In general when Webform is used 99% times developers do not disable view state, they use code behind, they use server controls left and right and so on.

Because if we go that route of testing then ASP.NET MVC also has lot of best practices like jQuery, JSON etc to improve performance.

So this test was conducted keeping what is the most used feature in both Webform and MVC. Both these technologies where kept at ground zero and compared using their most used feature in the market.

Option vs Compulsion

If you are taken to a bar and you are given a choice of drinking wine or juice. There is high possibility you will drink wine...temptation, human nature whatever you term it as.

But if you are taken to a juice shop, you do not have options and you are compelled to drink only juice.

ASP.NET Webform gives you option while MVC forces you to follow best practices. So with Webform I have options of using HTML, disable view state but the human temptation of RAD is so profound that most of the time people end up using these features.

On the other hand MVC does not give you option of code behind , server controls, view state etc thus compelling you to use pure HTML and without behind code architecture.

Further reading

We encourage you to read the below articles as well to enhance your ASP.NET MVC knowledge further.

http://www.codeproject.com/Articles/528117/WebForms-vs-MVC

http://www.codeproject.com/Articles/821275/Webforms-vs-MVC-and-Why-MVC-is-better

- If you want to start Learning MVC, this MVC article teaches ASP.NET MVC step by step in 7 days.
- These two articles are a great read if you want to know in detail of MVC VS Webforms.
- If you are preparing for MVC interview do not this miss 100 ASP.NET MVC interview question series.

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About the Authors

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India

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Learn Angular 2 for beginners (step by step)
Learn AngularJS 1.x Step by Step
Learn Xamarin Mobile Programming Step by Step
Learn Design Pattern in 8 hours
Learn C# in 100 hours series
Learn SQL Server in 16 hours series
Learn Javascript in 2 hours series
Learn MSBI in 32 hours
Learn SharePoint Step by Step in 8 hours
Learn TypeScript in 45 minutes

Marla Sukesh
Instructor / Trainer Train IT
India

Learning is fun but teaching is awesome.

Code re-usability is my passion ,Teaching and learning is my hobby, Becoming an successful entrepreneur is my goal.

By profession I am a Corporate Trainer.
I do trainings on WCF, MVC, Business Intelligence, Design Patterns, HTML 5, jQuery, JSON and many more Microsoft and non-Micrsoft technologiees.

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[My vote of 1] My note of 1
Michael-Jorge Gómez Campos 24-Sep-15 20:16

Re: [My vote of 1] My note of 1
Shivprasad koirala 24-Sep-15 20:29

Re: [My vote of 1] My note of 1
Michael-Jorge Gómez Campos 24-Sep-15 22:28

Notepad is faster than Word
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Re: Notepad is faster than Word
Shivprasad koirala 24-Sep-15 20:35

Re: Notepad is faster than Word
F-ES Sitecore 24-Sep-15 21:36

Article of the day by Microsoft ASP.Net Technical community
Gaurav Kumar Arora 25-Mar-15 6:51

Re: Article of the day by Microsoft ASP.Net Technical community
Marla Sukesh 25-Mar-15 6:53

Re: Article of the day by Microsoft ASP.Net Technical community
Member 12722437 20-Sep-16 2:14

Re: Article of the day by Microsoft ASP.Net Technical community
citizendc 29-Dec-16 20:54

My vote of 5

DVL Patel **11-Feb-15 23:42**

My vote of 5
.NET DJ **9-Feb-15 0:33**

My vote of 5
Raul Iloc **8-Feb-15 20:59**

My vote of 5
Mahsa Hassankashi **7-Feb-15 23:19**

Unfair comparison... and not because of viewstate
AndrewLansdowne **20-Jan-15 23:16**

Re: Unfair comparison... and not because of viewstate
Marla Sukesh 25-Mar-15 7:18

Re: MVC is Technically Driven While WebForms is Business Driven
Steve Naidamast **19-Jan-15 7:07**

Re: MVC is Technically Driven While WebForms is Business Driven
Rene Pilon 19-Jan-15 7:38

Re: MVC is Technically Driven While WebForms is Business Driven
Member 12722437 20-Sep-16 2:21

Re: MVC is Technically Driven While WebForms is Business Driven
Shivprasad koirala 20-Sep-16 2:29

Re: MVC is Technically Driven While WebForms is Business Driven
Chona1171 19-Jan-15 23:57

Re: MVC is Technically Driven While WebForms is Business Driven
Shivprasad koirala 20-Jan-15 1:38

Re: MVC is Technically Driven While WebForms is Business Driven
Shivprasad koirala 20-Jan-15 1:41

Re: MVC & WebForms Comments - Thank You
Steve Naidamast 20-Jan-15 3:59

Re: MVC & WebForms Comments - Thank You
Celso Moraes 20-Jan-15 21:14

Re: MVC & WebForms Comments - Thank You
Rene Pilon 22-Jan-15 5:22

Re: MVC is Technically Driven While WebForms is Business Driven
SunnysGlimpse 20-Jan-15 4:44

Re: MVC is Technically Driven While WebForms is Business Driven
pandyamitesh 18-Jun-15 9:43

My vote of 5
Sk. Tajbir **19-Jan-15 6:20**

Performance main reason to go MVC?
L Hills **19-Jan-15 6:05**

Re: Performance main reason to go MVC?
Shivprasad koirala 19-Jan-15 6:13

Partial/incomplete comparison. The research is incomplete.
adriancs **16-Jan-15 20:06**

Re: Partial/incomplete comparison. The research is incomplete.
Shivprasad koirala 16-Jan-15 20:16

Re: Partial/incomplete comparison. The research is incomplete.
adriancs 17-Jan-15 3:48

Re: Partial/incomplete comparison. The research is incomplete.
Shivprasad koirala 17-Jan-15 3:56

Re: Partial/incomplete comparison. The research is incomplete.
Steve Naidamast 15-Jun-15 8:26

thats a good one
saxenaabhi6 16-Jan-15 1:39

Good comparison
Gaurav.Kumar.Arora 15-Jan-15 22:55

My vote of 2
Member 11146950 14-Jan-15 21:51

Re: My vote of 2
Shivprasad koirala 15-Jan-15 21:15

[My vote of 1] you are comparing potatoes and tomatoes
Member 2288223 13-Jan-15 23:47

Re: [My vote of 1] you are comparing potatoes and tomatoes
Shivprasad koirala 13-Jan-15 23:59

Re: [My vote of 1] you are comparing potatoes and tomatoes
Member 2288223 14-Jan-15 1:50

Re: [My vote of 1] you are comparing potatoes and tomatoes
Shivprasad koirala 14-Jan-15 5:14

Re: [My vote of 1] you are comparing potatoes and tomatoes
enricoariel 14-Jan-15 5:59

Re: [My vote of 1] you are comparing potatoes and tomatoes
Shivprasad koirala 14-Jan-15 6:09

Re: [My vote of 1] you are comparing potatoes and tomatoes
Luka 16-Jan-15 2:58

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