

Homework 10: Performance Testing

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System Chosen for Testing:

Twitter Website

Test Plan:

I tested 10 different users who are trying to access twitter

I made three test cases:

1. User access twiter.com
2. User access twitter.com/login
3. User access twitter.com/signup

Workload Model

I used a scenario-based workload model during this process. I tried to simulate real world situations as much as possible. I tested all my developed test cases.

Scenarios of Workload Model

Different scenarios of workload model are as follows:

1. Ten different users trying to access twiter.com with 1 second gap
2. Ten different users trying to access twitter.com/login with 1 second gap
3. Ten different users trying to access twitter.com/signup with 1 second gap

I kept the loop count to 5 during this process.

Screenshots

Following are the screenshots of the tests on JMeter

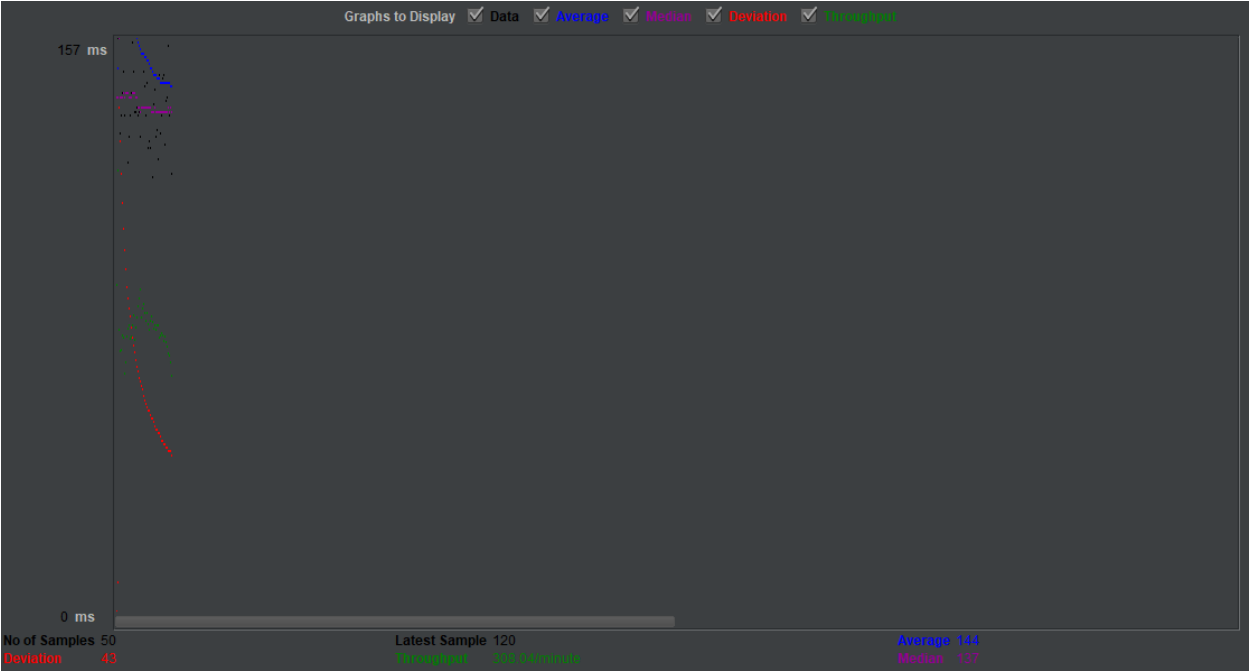
Homepage of Twitter:



Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
1	16:48:02.828	Thread Group 1-3	Homepage	545	✓	295944	230	79	36
2	16:48:00.831	Thread Group 1-1	Homepage	2590	✓	295944	230	68	36
3	16:48:01.830	Thread Group 1-2	Homepage	1595	✓	295944	230	76	36
4	16:48:03.637	Thread Group 1-3	Homepage	312	✓	295944	230	54	23
5	16:48:03.705	Thread Group 1-2	Homepage	412	✓	295944	230	77	37
6	16:48:03.827	Thread Group 1-4	Homepage	402	✓	295944	230	72	31
7	16:48:03.991	Thread Group 1-1	Homepage	410	✓	295944	230	74	34
8	16:48:04.392	Thread Group 1-2	Homepage	393	✓	295944	230	75	34
9	16:48:04.185	Thread Group 1-3	Homepage	682	✓	295945	230	70	31
10	16:48:04.512	Thread Group 1-4	Homepage	382	✓	295944	230	71	32
11	16:48:04.666	Thread Group 1-1	Homepage	369	✓	295944	230	57	26
12	16:48:04.832	Thread Group 1-5	Homepage	338	✓	295944	230	74	33
13	16:48:05.040	Thread Group 1-2	Homepage	394	✓	295944	230	76	37
14	16:48:05.167	Thread Group 1-3	Homepage	405	✓	295944	230	78	38
15	16:48:05.172	Thread Group 1-4	Homepage	454	✓	295944	230	72	33
16	16:48:05.304	Thread Group 1-1	Homepage	403	✓	295944	230	76	35
17	16:48:05.707	Thread Group 1-2	Homepage	414	✓	295944	230	61	31
18	16:48:05.406	Thread Group 1-5	Homepage	749	✓	295945	230	74	34
19	16:48:05.831	Thread Group 1-6	Homepage	379	✓	295944	230	71	31
20	16:48:05.841	Thread Group 1-3	Homepage	415	✓	295944	230	79	37
21	16:48:05.923	Thread Group 1-4	Homepage	396	✓	295944	230	78	38
22	16:48:06.014	Thread Group 1-1	Homepage	369	✓	295944	230	52	24
23	16:48:06.426	Thread Group 1-5	Homepage	408	✓	295944	230	69	30
24	16:48:06.471	Thread Group 1-6	Homepage	407	✓	295944	230	78	40
25	16:48:06.577	Thread Group 1-4	Homepage	393	✓	295944	230	76	36
26	16:48:06.831	Thread Group 1-7	Homepage	410	✓	295944	230	75	35
27	16:48:07.124	Thread Group 1-5	Homepage	379	✓	295944	230	61	30
28	16:48:07.147	Thread Group 1-6	Homepage	390	✓	295944	230	70	31
29	16:48:07.513	Thread Group 1-7	Homepage	371	✓	295943	230	54	24
30	16:48:07.762	Thread Group 1-5	Homepage	389	✓	295944	230	61	30
31	16:48:07.831	Thread Group 1-8	Homepage	331	✓	295944	230	74	32
32	16:48:07.804	Thread Group 1-6	Homepage	410	✓	295944	230	79	42
33	16:48:08.146	Thread Group 1-7	Homepage	343	✓	295944	230	80	39

☐ Scroll automatically? ☐ Child samples? No of Samples 50 Latest Sample 330 Average 469 Deviation 353

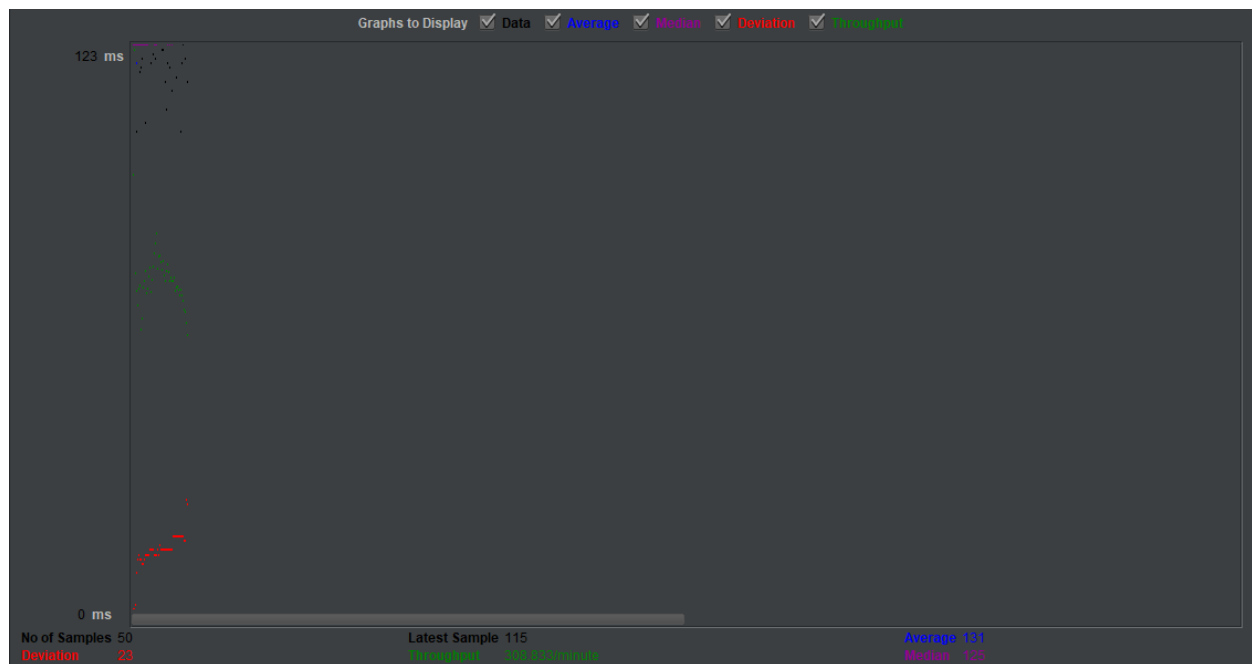
Login page of Twitter



Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
1	16:48:03.373	Thread Group 1-3	login	141		301511	240	44	0
2	16:48:03.425	Thread Group 1-2	login	157		301510	240	34	0
3	16:48:03.421	Thread Group 1-1	login	442		301511	240	75	34
4	16:48:03.949	Thread Group 1-3	login	131		301511	240	35	0
5	16:48:04.117	Thread Group 1-2	login	136		301511	240	40	0
6	16:48:04.229	Thread Group 1-4	login	142		301511	240	35	0
7	16:48:04.401	Thread Group 1-1	login	148		301511	240	45	0
8	16:48:04.785	Thread Group 1-2	login	136		301510	240	38	0
9	16:48:04.894	Thread Group 1-4	login	142		301511	240	37	0
10	16:48:04.868	Thread Group 1-3	login	178		301511	240	36	0
11	16:48:05.036	Thread Group 1-1	login	123		301511	240	27	0
12	16:48:05.170	Thread Group 1-5	login	130		301511	240	37	0
13	16:48:05.434	Thread Group 1-2	login	136		301511	240	40	0
14	16:48:05.572	Thread Group 1-3	login	142		301510	240	37	0
15	16:48:05.627	Thread Group 1-4	login	156		301511	240	39	0
16	16:48:05.707	Thread Group 1-1	login	148		301511	240	37	0
17	16:48:06.121	Thread Group 1-2	login	137		301511	240	30	0
18	16:48:06.155	Thread Group 1-5	login	137		301510	240	38	0
19	16:48:06.211	Thread Group 1-6	login	138		301511	240	38	0
20	16:48:06.256	Thread Group 1-3	login	136		301511	240	37	0
21	16:48:06.319	Thread Group 1-4	login	137		301511	240	39	0
22	16:48:06.383	Thread Group 1-1	login	130		301511	240	32	0
23	16:48:06.834	Thread Group 1-5	login	138		301511	240	36	0
24	16:48:06.878	Thread Group 1-6	login	138		301511	240	37	0
25	16:48:06.971	Thread Group 1-4	login	148		301511	240	39	0
26	16:48:07.241	Thread Group 1-7	login	144		301511	240	42	0
27	16:48:07.503	Thread Group 1-5	login	136		301511	240	30	0
28	16:48:07.537	Thread Group 1-6	login	145		301511	240	47	0
29	16:48:07.884	Thread Group 1-7	login	127		301511	240	30	0
30	16:48:08.151	Thread Group 1-5	login	129		301511	240	28	0
31	16:48:08.162	Thread Group 1-8	login	127		301511	240	33	0
32	16:48:08.215	Thread Group 1-6	login	137		301510	240	34	0
33	16:48:08.489	Thread Group 1-7	login	119		301511	240	39	0

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Signup page of Twitter



Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
1	16:48:03.514	Thread Group 1-3	register	123	✓	42991	256	41	0
2	16:48:03.582	Thread Group 1-2	register	123	✓	42991	256	33	0
3	16:48:03.863	Thread Group 1-1	register	127	✓	42992	256	48	0
4	16:48:04.080	Thread Group 1-3	register	104	✓	43241	256	32	0
5	16:48:04.253	Thread Group 1-2	register	139	✓	42991	256	42	0
6	16:48:04.371	Thread Group 1-4	register	141	✓	43429	256	39	0
7	16:48:04.549	Thread Group 1-1	register	117	✓	43445	256	37	0
8	16:48:04.921	Thread Group 1-2	register	118	✓	43210	256	39	0
9	16:48:05.047	Thread Group 1-3	register	120	✓	43487	256	40	0
10	16:48:05.036	Thread Group 1-4	register	135	✓	42991	256	32	0
11	16:48:05.159	Thread Group 1-1	register	145	✓	43472	256	33	0
12	16:48:05.300	Thread Group 1-5	register	106	✓	43241	256	35	0
13	16:48:05.570	Thread Group 1-2	register	137	✓	43209	256	40	0
14	16:48:05.715	Thread Group 1-3	register	126	✓	43677	256	40	0
15	16:48:05.784	Thread Group 1-4	register	139	✓	43462	256	37	0
16	16:48:05.855	Thread Group 1-1	register	158	✓	42991	256	38	0
17	16:48:06.258	Thread Group 1-2	register	119	✓	43445	256	31	0
18	16:48:06.292	Thread Group 1-5	register	134	✓	42991	256	38	0
19	16:48:06.349	Thread Group 1-6	register	121	✓	43414	256	39	0
20	16:48:06.392	Thread Group 1-3	register	123	✓	43193	256	40	0
21	16:48:06.457	Thread Group 1-4	register	120	✓	42991	256	38	0
22	16:48:06.513	Thread Group 1-1	register	125	✓	43680	256	30	0
23	16:48:06.972	Thread Group 1-5	register	151	✓	42991	256	35	0
24	16:48:07.017	Thread Group 1-6	register	130	✓	43241	256	35	0
25	16:48:07.119	Thread Group 1-4	register	162	✓	43241	256	36	0
26	16:48:07.385	Thread Group 1-7	register	128	✓	43193	256	33	0
27	16:48:07.639	Thread Group 1-5	register	122	✓	43208	256	31	0
28	16:48:07.682	Thread Group 1-6	register	122	✓	43241	256	38	0
29	16:48:08.011	Thread Group 1-7	register	134	✓	43476	256	32	0
30	16:48:08.280	Thread Group 1-5	register	115	✓	42991	256	27	0
31	16:48:08.289	Thread Group 1-8	register	109	✓	42991	256	34	0
32	16:48:08.352	Thread Group 1-6	register	119	✓	43193	256	35	0
33	16:48:08.609	Thread Group 1-7	register	131	✓	43193	256	35	0

☐ Scroll automatically? ☐ Child samples? No of Samples 50 Latest Sample 115 Average 131 Deviation 23

Findings

In conclusion, I would say that I learned a lot from this assignment as I was not only able to learn JMeter but it also assisted me in discovering more about workload models, test plans and web applications.

As you can see in the screenshots, throughput of homepage is less than that of login and signup pages. Although, the highest deviations were seen in the homepage and lowest was seen in signup page.

Honor Pledge:

"I pledge my honor that I have abided by the Stevens Honor System."