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JMeter (HTML) Report of Restful Booker API

Dear,

I've completed performance test on frequently used API for Restful Booker.

1000 Concurrent Request with 1 Loop Count; Avg TPS for Total Samples is ~ 16.67 And Total Concurrent API requested: 3000.

1500 Concurrent Request with 1 Loop Count; Avg TPS for Total Samples is ~ 24 And Total Concurrent API requested: 4500.

2000 Concurrent Request with 1 Loop Count; Avg TPS for Total Samples is ~ 33 And Total Concurrent API requested: 6000.

2500 Concurrent Request with 1 Loop Count; Avg TPS for Total Samples is ~ 19 And Total Concurrent API requested: 7500.

While executed 2500 concurrent request, found error rate is 15.09%.

Summary: Server can handle almost concurrent 2000 API call with almost zero (0) error rate.

Please find the details report from the attachment and let me know if you have any further queries.

1000 Concurrent Request:

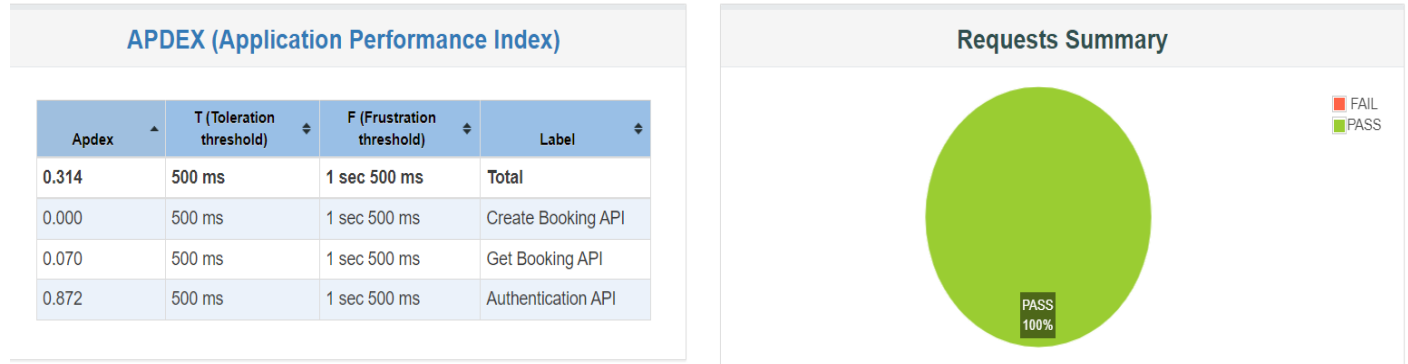


Fig: Index and Request summary Chart



Fig: Throughput per second 16.67

Statistics													
Requests		Executions		Response Times (ms)							Throughput	Network (KB/sec)	
Label	#Samples	FAIL	Error %	Average	Min	Max	Median	90th pct	95th pct	99th pct	Transactions/s	Received	Sent
Total	3000	0	0.00%	2626.47	306	15365	2002.50	6156.60	7517.75	10419.91	172.80	63.56	50.34
Authentication API	1000	0	0.00%	462.21	306	1460	429.00	588.00	668.40	1299.84	80.15	21.29	20.04
Create Booking API	1000	0	0.00%	5213.49	1550	15365	4671.00	8366.50	9878.85	11233.69	62.39	26.93	27.54
Get Booking API	1000	0	0.00%	2203.72	365	3898	2035.50	3092.00	3123.95	3161.99	80.01	32.51	14.61

Fig: Request Statistics

1500 Concurrent Request:

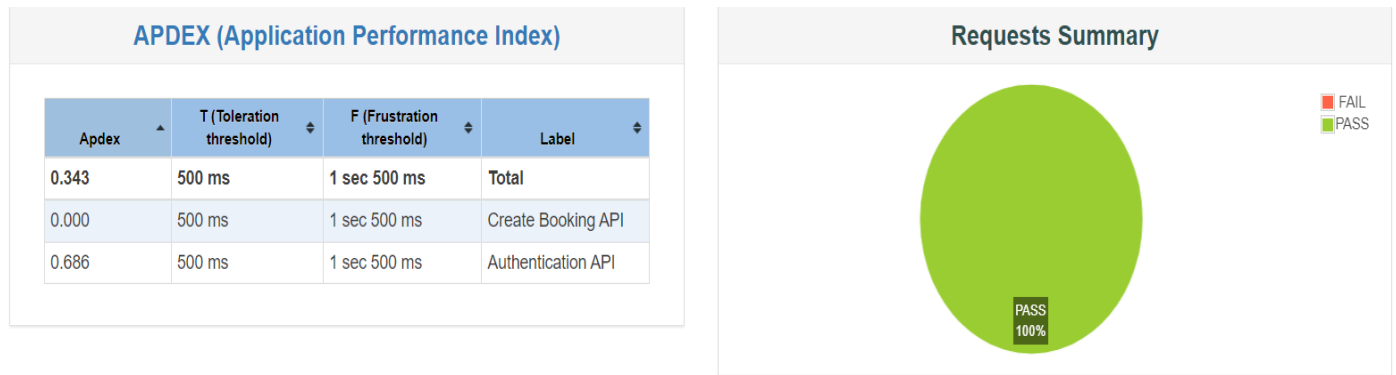


Fig: Index and Request summary Chart

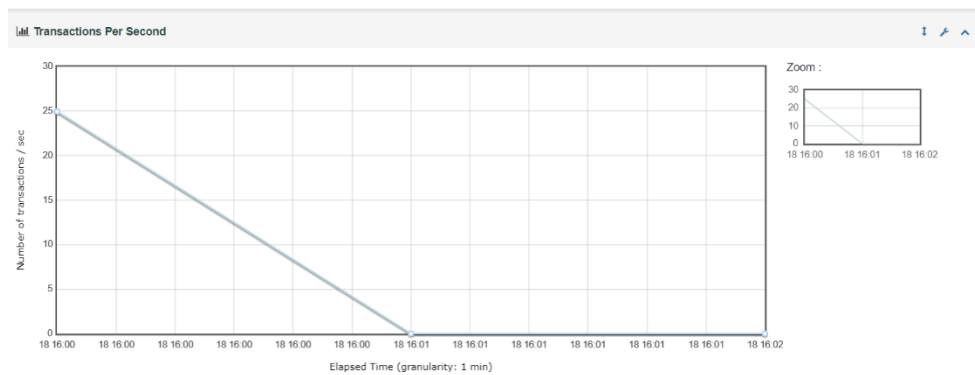


Fig: Throughput per second 24

Statistics													
Requests	Executions			Response Times (ms)							Throughput	Network (KB/sec)	
Label	#Samples	FAIL	Error %	Average	Min	Max	Median	90th pct	95th pct	99th pct	Transactions/s	Received	Sent
Total	4500	44	0.98%	7567.51	307	261005	2328.00	21840.90	27021.50	39321.63	17.03	6.22	4.96
Authentication API	1500	0	0.00%	577.13	307	2720	499.00	789.00	1135.85	1757.89	5.93	1.58	1.48
Create Booking API	1500	0	0.00%	19698.97	6001	261005	17886.50	28342.30	30559.20	71215.33	5.73	2.48	2.53
Get Booking API	1500	44	2.93%	2426.44	310	42409	2320.50	4133.00	4251.95	4673.86	5.93	2.37	1.08

Fig: Request Statistics

2000 Concurrent Request:

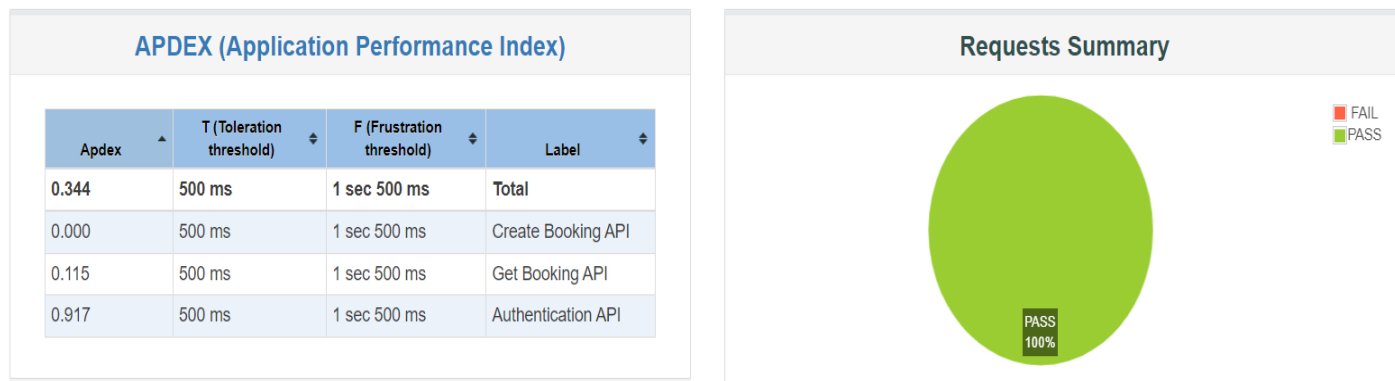


Fig: Index and Request summary Chart

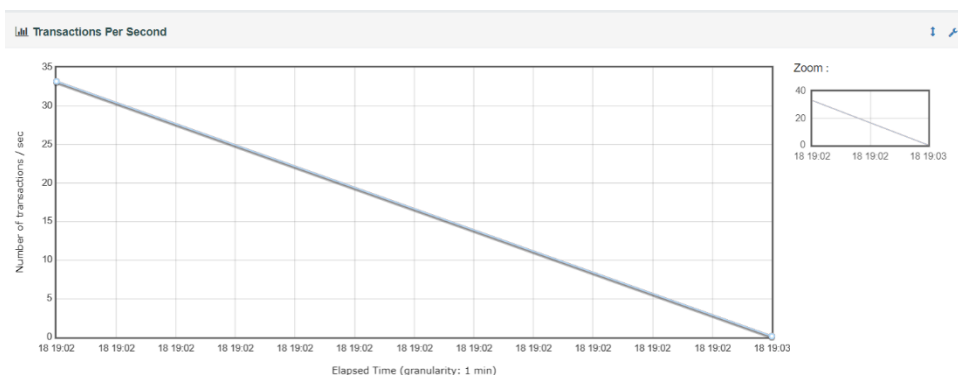


Fig: Throughput per second 33

Statistics													
Requests		Executions			Response Times (ms)						Throughput	Network (KB/sec)	
Label	#Samples	FAIL	Error %	Average	Min	Max	Median	90th pct	95th pct	99th pct	Transactions/s	Received	Sent
Total	6000	0	0.00%	8561.81	305	104281	3943.00	27886.40	30745.40	41677.78	54.52	20.07	15.88
Authentication API	2000	0	0.00%	495.98	305	14531	357.50	586.30	1405.90	2754.85	20.02	5.32	5.00
Create Booking API	2000	0	0.00%	21464.56	2588	104281	20340.50	31602.80	35801.10	47564.95	18.56	8.03	8.19
Get Booking API	2000	0	0.00%	3724.89	313	15988	3916.00	5956.50	6334.75	6735.00	20.00	8.12	3.65

Fig: Request Statistics

2500 Concurrent Request:

APDEX (Application Performance Index)

Apdex	T (Toleration threshold)	F (Frustration threshold)	Label
0.283	500 ms	1 sec 500 ms	Total
0.000	500 ms	1 sec 500 ms	Create Booking API
0.081	500 ms	1 sec 500 ms	Get Booking API
0.767	500 ms	1 sec 500 ms	Authentication API

Requests Summary

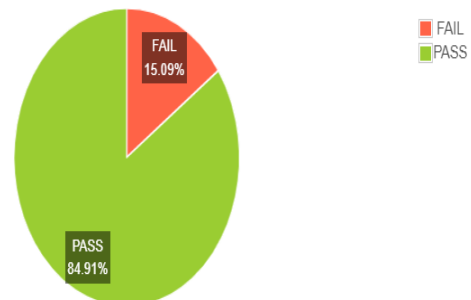


Fig: Index and Request summary Chart

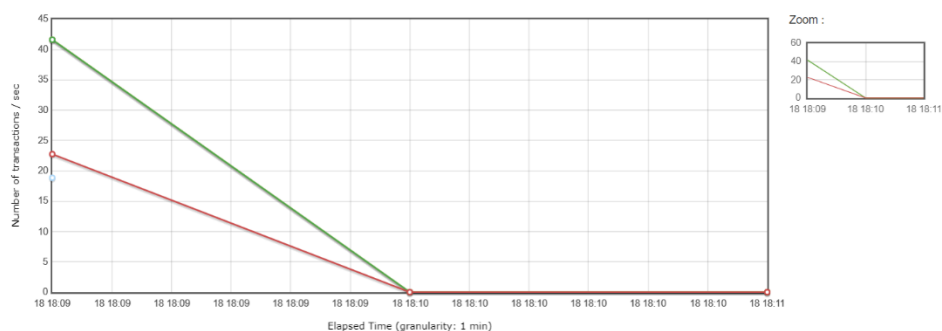


Fig: Throughput per second 19

Statistics

Requests	Executions			Response Times (ms)							Throughput	Network (KB/sec)	
Label	#Samples	FAIL	Error %	Average	Min	Max	Median	90th pct	95th pct	99th pct	Transactions/s	Received	Sent
Total	7500	1132	15.09%	11317.55	306	145341	4365.50	33888.90	39982.55	47365.93	49.91	17.13	14.54
Authentication API	2500	0	0.00%	544.31	306	3688	460.50	717.90	910.90	1847.99	18.64	4.95	4.66
Create Booking API	2500	0	0.00%	29472.67	10782	145341	30788.00	43183.90	45285.75	50154.80	16.88	7.29	7.45
Get Booking API	2500	1132	45.28%	3935.68	308	14158	4365.50	6178.00	6516.65	7146.97	18.59	6.17	3.39

Fig: Request Statistics

