

Performance test report - Jul 20, 2024 (#62)

[Open in Postman](#)

Postman collection: MasterThesisOriginal

Report exported on: Jul 20, 2024, 20:28:31 (GMT+1)

Test setup

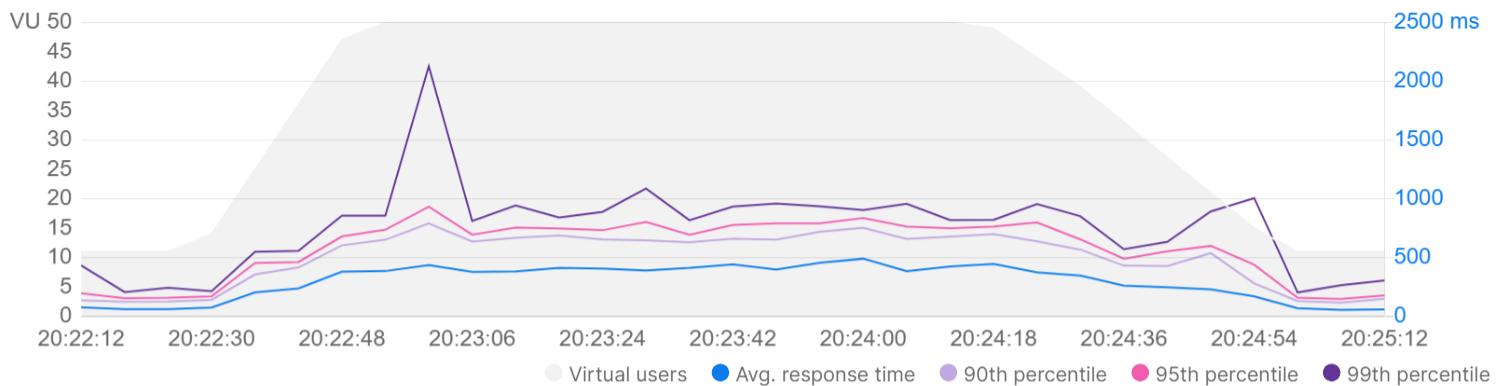
Virtual users	Start time	Load profile
50 VU	Jul 20, 20:22:09 (GMT+1)	Peak
Duration	End time	Environment
3 minutes	Jul 20, 20:25:17 (GMT+1)	-

1. Summary

Total requests sent	Throughput	Average response time	Error rate
16,432	87.30 requests/second	317 ms	0.77 %

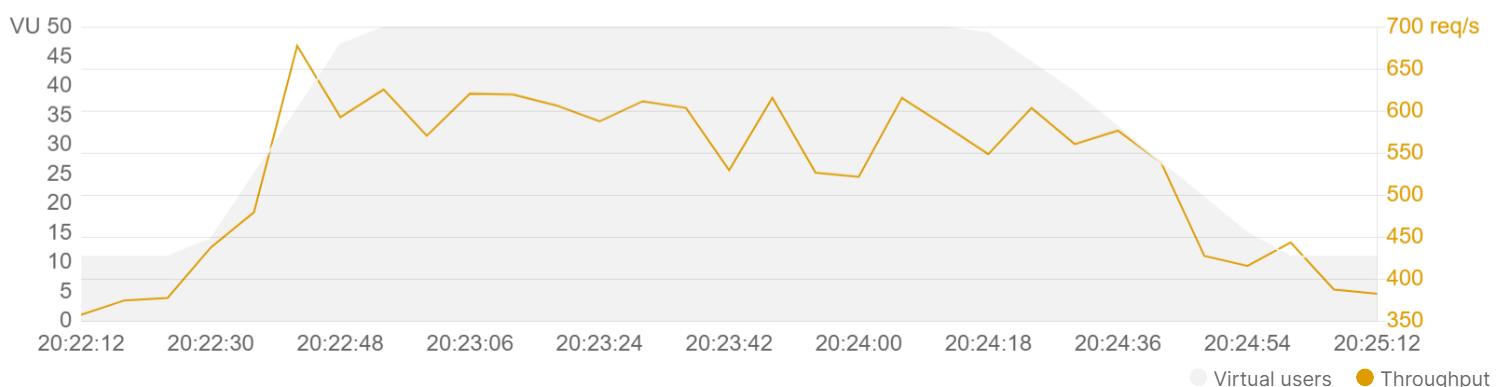
1.1 Response time

Response time trends during the test duration.



1.2 Throughput

Rate of requests sent per second during the test duration.



1.3 Requests with slowest response times

Top 5 slowest requests based on their average response times.

Request	Resp. time (Avg ms)	90th (ms)	95th (ms)	99th (ms)	Min (ms)	Max (ms)
GET 24- /api/recommendations? productIds=66VCHSJNUP http://{{IP}}:{{PORT}}/api/recommendations? productIds=66VCHSJNUP	472	774	859	990	24	1,155
GET 27- /api/recommendations? productIds=HQTGWGPNH4 http://{{IP}}:{{PORT}}/api/recommendations? productIds=HQTGWGPNH4	472	767	856	1,013	25	1,247
GET 21- /api/recommendations? productIds=OPUK6V6EV0 http://{{IP}}:{{PORT}}/api/recommendations? productIds=OPUK6V6EV0	462	780	858	1,020	24	1,089
GET 22- /api/recommendations? productIds=1YMWWN1N4O http://{{IP}}:{{PORT}}/api/recommendations? productIds=1YMWWN1N4O	462	754	838	985	20	1,146
GET 28- /api/recommendations? productIds=L9ECAV7KIM http://{{IP}}:{{PORT}}/api/recommendations? L9ECAV7KIM	462	742	826	938	20	1,103

1.4 Requests with most errors

Top 5 requests with the most errors, along with the most frequently occurring errors for each request.

Request	Total error count	Error 1	Error 2	Other errors
GET 25- /api/recommendations?productIds=6E92ZMYYFZ http://{{IP}}:{{PORT}}/api/recommendations? productIds=6E92ZMYYFZ	15	500 Internal Server Error (15)	-	0
GET 26- /api/recommendations?productIds=9SIQT8TOJO http://{{IP}}:{{PORT}}/api/recommendations? productIds=9SIQT8TOJO	14	500 Internal Server Error (14)	-	0
GET 27- /api/recommendations?productIds=HQTGWGPNH4 http://{{IP}}:{{PORT}}/api/recommendations? productIds=HQTGWGPNH4	12	500 Internal Server Error (12)	-	0
GET 28- /api/recommendations?productIds=L9ECAV7KIM http://{{IP}}:{{PORT}}/api/recommendations?L9ECAV7KIM	11	500 Internal Server Error (11)	-	0
GET 24- /api/recommendations?productIds=66VCHSJNUP http://{{IP}}:{{PORT}}/api/recommendations? productIds=66VCHSJNUP	10	500 Internal Server Error (10)	-	0

2. Metrics for each request

The requests are shown in the order they were sent by virtual users.

Request	Total requests	Requests/s	Min (ms)	Avg (ms)	90th (ms)	Max (ms)	Error %
GET 1- / http://{{IP}}:{{PORT}}/	507	2.69	21	410	664	1,096	0.2
GET 2- /api/cart http://{{IP}}:{{PORT}}/api/cart	506	2.69	11	251	439	785	0
POST 3- /api/cart http://{{IP}}:{{PORT}}/api/cart	497	2.64	13	327	579	1,059	0
POST 3- /api/cart Copy http://{{IP}}:{{PORT}}/api/cart	484	2.57	13	342	584	1,009	0

POST 4- /api/checkout	478	2.54	44	379	662	1,216	1.46
http://{{IP}}:{{PORT}}/api/checkout							
POST 3- /api/cart Copy 2	471	2.50	17	340	576	1,208	0
http://{{IP}}:{{PORT}}/api/cart							
POST 3- /api/cart Copy 3	470	2.50	14	333	567	1,072	0
http://{{IP}}:{{PORT}}/api/cart							
POST 4- /api/checkout Copy	470	2.50	45	389	700	2,244	0.43
http://{{IP}}:{{PORT}}/api/checkout							
POST 3- /api/cart Copy 4	470	2.50	13	325	578	903	0
http://{{IP}}:{{PORT}}/api/cart							
POST 3- /api/cart Copy 5	468	2.49	13	325	584	1,066	0
http://{{IP}}:{{PORT}}/api/cart							
POST 4- /api/checkout Copy 2	468	2.49	47	398	687	2,228	1.5
http://{{IP}}:{{PORT}}/api/checkout							
GET 5- /api/data	468	2.49	12	288	521	867	0
http://{{IP}}:{{PORT}}/api/data							
GET 6- /api/data?contextKeys=assembly	467	2.48	12	276	484	860	0
http://{{IP}}:{{PORT}}/api/data?contextKeys=assembly							
GET 7- /api/data?contextKeys=binoculars	466	2.48	13	284	523	857	0
http://{{IP}}:{{PORT}}/api/data?contextKeys=binoculars							
GET 8- /api/data?contextKeys=books	465	2.47	11	299	542	892	0
http://{{IP}}:{{PORT}}/api/data?contextKeys=books							
GET 9- /api/data?contextKeys=telescopes	465	2.47	11	282	508	866	0
http://{{IP}}:{{PORT}}/api/data?contextKeys=telescopes							
GET 10- /api/data/?contextKeys=travel	464	2.47	11	249	435	896	0
http://{{IP}}:{{PORT}}/api/data/?contextKeys=travel							
GET 11- /api/products/OPUK6V6EVO	464	2.47	11	186	334	699	0.65
http://{{IP}}:{{PORT}}/api/products/OPUK6V6EVO							

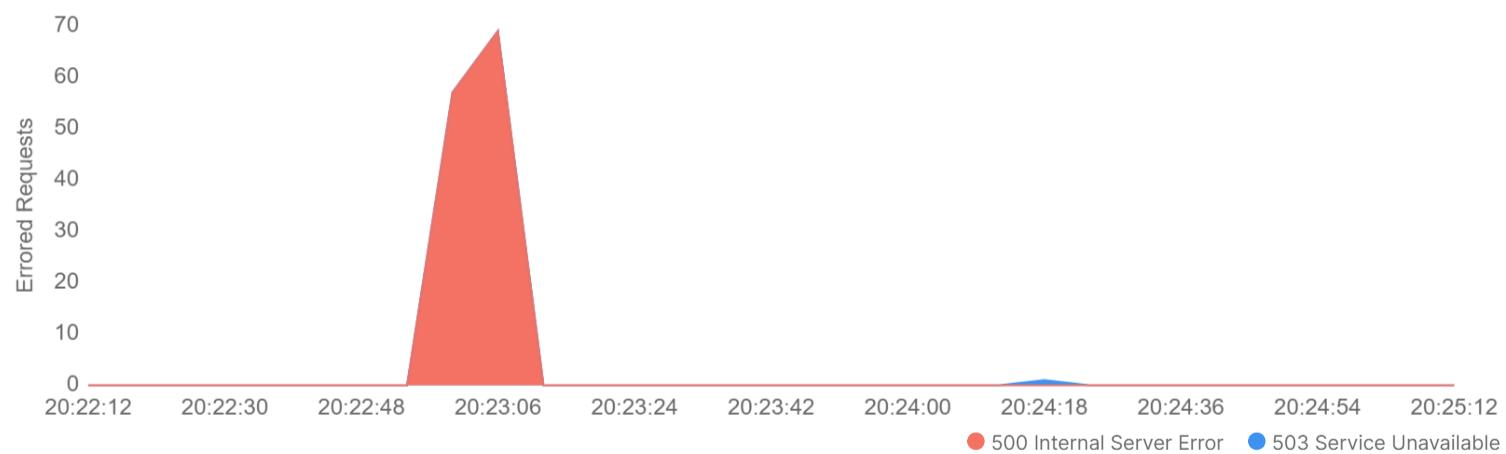
GET 12- /api/products/1YMWNN1N4O	464	2.47	11	193	337	756	0.65
http://{{IP}}:{{PORT}}/api/products/1YMWNN1N4O							
GET 13- /api/products/2ZYFJ3GM2N	464	2.47	10	192	347	673	1.51
http://{{IP}}:{{PORT}}/api/products/2ZYFJ3GM2N							
GET 14- /api/products/66VCHSJNUP	464	2.47	11	184	342	669	1.51
http://{{IP}}:{{PORT}}/api/products/66VCHSJNUP							
GET 15- /api/products/6E92ZMYYFZ	464	2.47	11	188	321	847	0.86
http://{{IP}}:{{PORT}}/api/products/6E92ZMYYFZ							
GET 16- /api/products/9SIQT8TOJO	464	2.47	11	198	383	844	0.86
http://{{IP}}:{{PORT}}/api/products/9SIQT8TOJO							
GET 17- /api/products/HQTGWGPNH4	464	2.47	11	194	347	829	0.86
http://{{IP}}:{{PORT}}/api/products/HQTGWGPNH4							
GET 18- /api/products/L9ECAV7KIM	464	2.47	13	189	329	648	0.43
http://{{IP}}:{{PORT}}/api/products/L9ECAV7KIM							
GET 19- /api/products/LS4PSXUNUM	464	2.47	10	188	322	689	0
http://{{IP}}:{{PORT}}/api/products/LS4PSXUNUM							
GET 20- /api/products/OLJCESPC7Z	464	2.47	15	201	355	712	0.22
http://{{IP}}:{{PORT}}/api/products/OLJCESPC7Z							
GET 21- /api/recommendations? productIds=OPUK6V6EV0	464	2.47	24	462	780	1,089	0.22
http://{{IP}}:{{PORT}}/api/recommendations? productIds=OPUK6V6EV0							
GET 22- /api/recommendations? productIds=1YMWNN1N4O	464	2.47	20	462	754	1,146	0.86
http://{{IP}}:{{PORT}}/api/recommendations? productIds=1YMWNN1N4O							
GET 23- /api/recommendations? productIds=2ZYFJ3GM2N	464	2.47	20	455	723	1,155	1.72
http://{{IP}}:{{PORT}}/api/recommendations? productIds=2ZYFJ3GM2N							

GET 24- /api/recommendations? productIds=66VCHSJNUP	464	2.47	24	472	774	1,155	2.16
http://{{IP}}:{{PORT}}/api/recommendations? productIds=66VCHSJNUP							
GET 25- /api/recommendations? productIds=6E92ZMYYFZ	464	2.47	23	453	731	1,116	3.23
http://{{IP}}:{{PORT}}/api/recommendations? productIds=6E92ZMYYFZ							
GET 26- /api/recommendations? productIds=9SIQT8TOJO	464	2.47	23	450	728	1,007	3.02
http://{{IP}}:{{PORT}}/api/recommendations? productIds=9SIQT8TOJO							
GET 27- /api/recommendations? productIds=HQTGWGPNH4	462	2.45	25	472	767	1,247	2.6
http://{{IP}}:{{PORT}}/api/recommendations? productIds=HQTGWGPNH4							
GET 28- /api/recommendations? productIds=L9ECAV7KIM	462	2.45	20	462	742	1,103	2.38
http://{{IP}}:{{PORT}}/api/recommendations?L9ECAV7KIM							

3. Errors

3.1 Error distribution over time

Top 5 error classes observed during the test duration.



3.2 Error distribution for requests

Errored requests grouped by error class, along with the error count for each class.

Error class	Total counts
500 Internal Server Error	126
POST 4- /api/checkout	7
POST 4- /api/checkout Copy	2
POST 4- /api/checkout Copy 2	7
GET 11- /api/products/0PUK6V6EV0	3
GET 12- /api/products/1YMWNN1N4O	3
GET 13- /api/products/2ZYFJ3GM2N	7
GET 14- /api/products/66VCHSJNUP	7
GET 15- /api/products/6E92ZMYYFZ	4
GET 16- /api/products/9SIQT8TOJO	4
GET 17- /api/products/HQTGWGPNH4	4
GET 18- /api/products/L9ECAV7KIM	2
GET 20- /api/products/OLJCESPC7Z	1
GET 21- /api/recommendations?productIds=0PUK6V6EV0	1
GET 22- /api/recommendations?productIds=1YMWNN1N4O	4
GET 23- /api/recommendations?productIds=2ZYFJ3GM2N	8
GET 24- /api/recommendations?productIds=66VCHSJNUP	10
GET 25- /api/recommendations?productIds=6E92ZMYYFZ	15
GET 26- /api/recommendations?productIds=9SIQT8TOJO	14
GET 27- /api/recommendations?productIds=HQTGWGPNH4	12
GET 28- /api/recommendations?productIds=L9ECAV7KIM	11
503 Service Unavailable	1
GET 1- /	1



Testing API performance on Postman

Postman enables you to simulate user traffic and observe how your API behaves under load. It also helps you identify any issues or bottlenecks that affect performance.

Learn more about [testing API performance](#).