

Postman collection: BioConnect Local
Report exported on: Jan 25, 2025, 1:08:17 (GMT+1)

Test setup

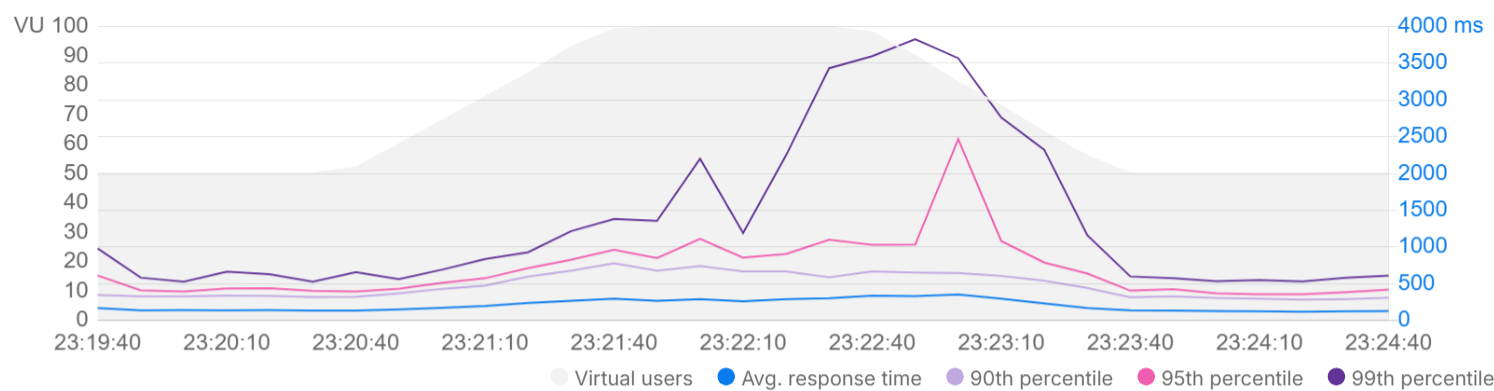
Virtual users	Start time	Load profile
100 VU	Jan 24, 23:19:40 (GMT+1)	Peak
Duration	End time	Environment
5 minutes	Jan 24, 23:24:47 (GMT+1)	-

1. Summary

Total requests sent	Throughput	Average response time	Error rate
62,692	204.13 requests/second	211 ms	0.00 %

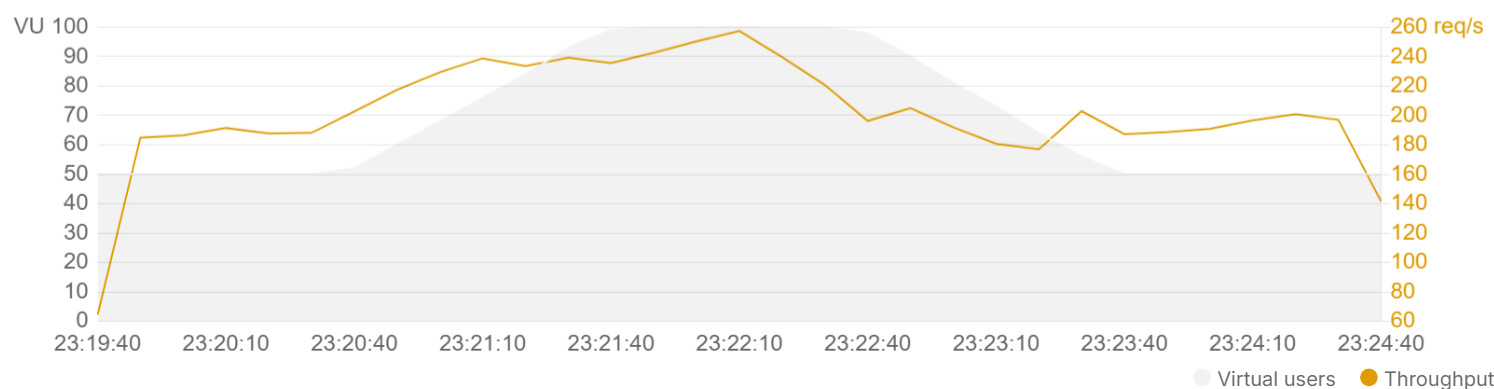
1.1 Response time

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 Pathways Recurrence {{localhost}}/api/proteinDoc/pathway-recurrence/ATGT	805	2,398	3,217	3,782	106	4,327
GET Drug with opposite effects {{localhost}}/api/drugGraph/oppositeEffectsOnProtein/ {{Aspirin ID}}	466	755	879	1,187	133	1,778
GET Shortest Path {{localhost}}/api/diseaseGraph/shortestPath/{{Disease: Joubert syndrome 39}}/{{Disease: Deafness, autosomal recessive, 1B}}	428	736	843	1,081	111	1,942
GET getAllUsers {{localhost}}/admin/users	323	644	850	1,211	74	2,017
GET Drug target similar protein {{localhost}}/api/drugGraph/targetSimilarProtein/{{hem oglobin subunit beta}}	311	558	657	866	63	1,341

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 Drug Node by id {{localhost}}/api/drugGraph/{{Aspirin ID}}	3,750	12.21	41	233	418	1,080	0
GET Drug target similar protein {{localhost}}/api/drugGraph/targetSimilarProtein/{{hemo globin subunit beta}}	3,747	12.20	63	311	558	1,341	0
GET Drug with opposite effects {{localhost}}/api/drugGraph/oppositeEffectsOnProtein/{{ Aspirin ID}}	3,736	12.16	133	466	755	1,778	0

GET Get a Disease Node	3,712	12.09	27	153	292	1,113	0
{{localhost}}/api/diseaseGraph/{{Disease: Deafness, autosomal recessive, 1B}}							
GET Disease linked to Drug	3,702	12.05	80	295	521	1,403	0
{{localhost}}/api/diseaseGraph/diseaseByDrug/{{Aspirin ID}}							
GET Shortest Path	3,683	11.99	111	428	736	1,942	0
{{localhost}}/api/diseaseGraph/shortestPath/{{Disease: Joubert syndrome 39}}/{{Disease: Deafness, autosomal recessive, 1B}}							
GET Protein Search	3,676	11.97	11	47	75	811	0
{{localhost}}/api/proteinDoc/{{hemoglobin subunit beta}}							
GET Publication Analysis Protein	3,674	11.96	11	36	54	421	0
{{localhost}}/api/proteinDoc/trend-analysis/{{Lipid Metabolism}}							
GET Pathways Recurrence	3,672	11.96	106	805	2,398	4,327	0
{{localhost}}/api/proteinDoc/pathway-recurrence/ATGT							
GET getProteinsByPathwayAndLocation	3,672	11.96	10	31	47	530	0
{{localhost}}/api/proteinDoc/getProteinsByPathwayAndLocation?pathway={{Lipid Metabolism}}&subcellularLocation={{Microsome Membrane}}							
GET Expired Patents	3,671	11.95	8	32	47	303	0
{{localhost}}/api/drugDoc/expired-patents/{{Cat: Anticoagulants}}							
GET Drug Search By ID or Name	3,671	11.95	9	33	53	823	0
{{localhost}}/api/drugDoc/{{Aspirin ID}}							
GET Publication Analysis for category	3,669	11.95	12	37	57	855	0
{{localhost}}/api/drugDoc/trend-analysis/{{Cat: Analgesics}}							
GET getAllUsers	3,667	11.94	74	323	644	2,017	0
{{localhost}}/admin/users							

GET getUserByUsername	3,665	11.93	8	31	45	463	0
{{localhost}}/admin/users/test_user1							
GET getAllComments	3,663	11.93	58	267	506	1,860	0
{{localhost}}/admin/users/comments							
GET getMyComments	3,662	11.92	15	54	79	620	0
{{localhost}}/profile/my_comments							

3. Errors

This run has no errors

All requests were sent successfully and returned a 2xx response code.



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](#).