Performance Testing

Used Tool: Blaze-Meter

Objective:

 The objective of performance testing is to ensure an application's speed, scalability, and stability under various workload conditions.

→ Duration: 20 minutes

→ Test Type: JMeter

→ Response Codes: Majority were successful (2xx), with a few Non-HTTP responses.



→ Virtual Users (VU): 20



Results:

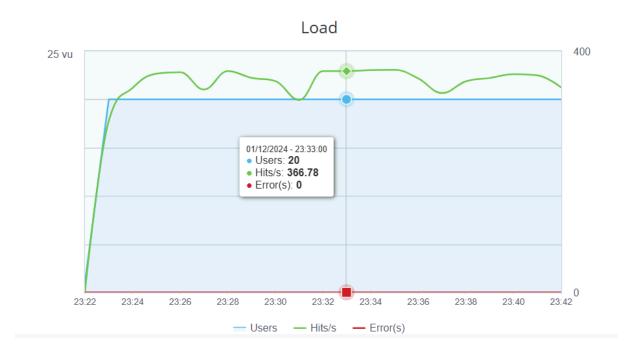
Average Throughput: 350.46 Hits/s

• Response Time:

Average: 56.09 ms
90th Percentile: 56 ms
Average Bandwidth: 2.2 MiB/s

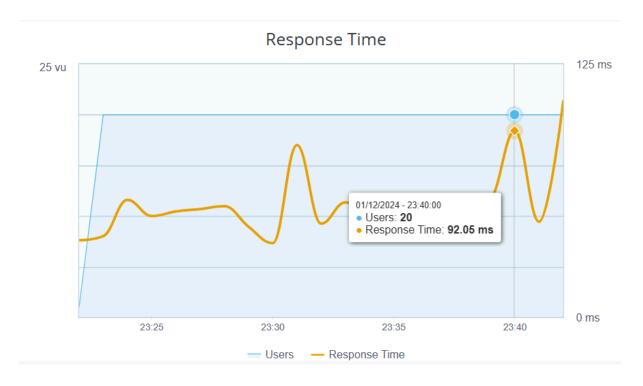
• Error Rate: 0% (No errors encountered during the test).

The system demonstrates good performance for 20 virtual users with low response times and no errors.



Load (Users and Hits/s):

- The test ramped up to **20 concurrent users** and maintained this load consistently during the test duration.
- Hits per second (green line) remained steady at approximately 350 hits/s, indicating stable throughput.



Response Time (ms):

- The average response time remained low throughout the test, generally under **85 ms**.
- Some fluctuations were observed in response times, particularly nearing the end of the test, where the peak response time approached 125 ms.

Response time spikes, though rare, should be analyzed to determine possible bottlenecks or delays under certain conditions.