

Demo Blaze Product Store

Performance Test Report Template

Version 1.1

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Contents

1. Executive Summary	1
1.1 Overview: Project Background and Scope	1
1.2 Overview: Performance Test Phase.....	1
1.3 GO - No GO Status	1
2. Test scenarios.....	2
2.1 Pagination flow.....	2
2.2 Purchase flow.....	2
3. Tests and results	3
3.1 Benchmark.....	3
3.1.1 Flow comparison	3
3.1.2 Requests comparison	4
3.1.3 Benchmark results summary	5
3.2 Ramp-up	5
3.2.1 Requests comparison.....	5
3.2.2 Ramp-up results summary.....	6

1. Executive Summary

1.1 Overview: Project Background and Scope

The ***Demo Blaze Product Store*** is the e-commerce application Purpose of the app is to make the process of buying some item easier and faster.

1.2 Overview: Performance Test Phase

The purpose of this report is to compare performance of the ***Demo Blaze Product Store*** application between previous version(s) and current version.

1.3 GO - No GO Status

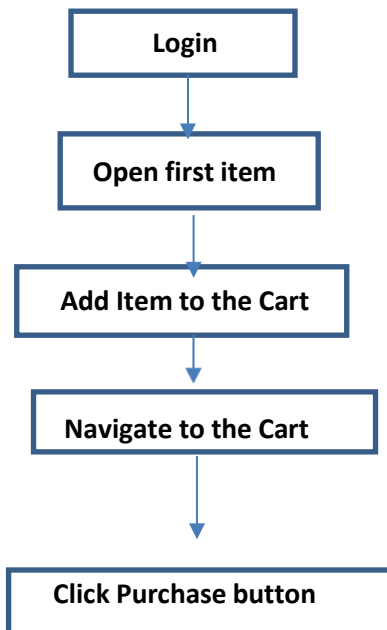
Few errors identified during the ramp up test. As per analysis was done by the development team and agreed with the project, these errors have low impact. Apart from this, benchmark results are good when compared to the last version and no performance issue has been detected in the application. Hence Performance Testing team is happy to provide **GREEN** sign-off with GO status.

2. Test scenarios

2.1 Pagination flow



2.2 Purchase flow



Test Scenario	Distribution
Pagination flow	30%
Purchase flow	70%

3. Tests and results

Application URL: <https://www.demoblaze.com/>

Environment: Production

Executed Tests:

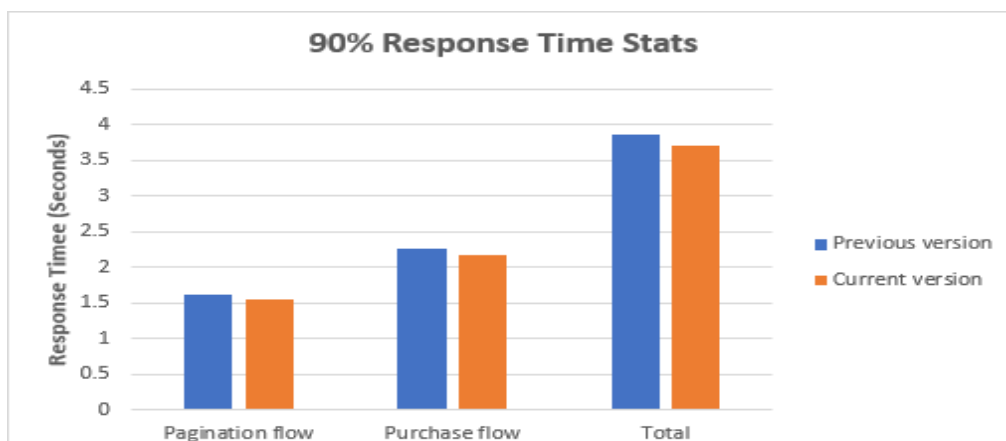
1. 2x Benchmark (1 user, 1h)
2. Ramp-up (10 users max, 4h)

3.1 Benchmark

From the table and chart below, response times from the previous and current version performance tests can be observed.

3.1.1 Flow comparison

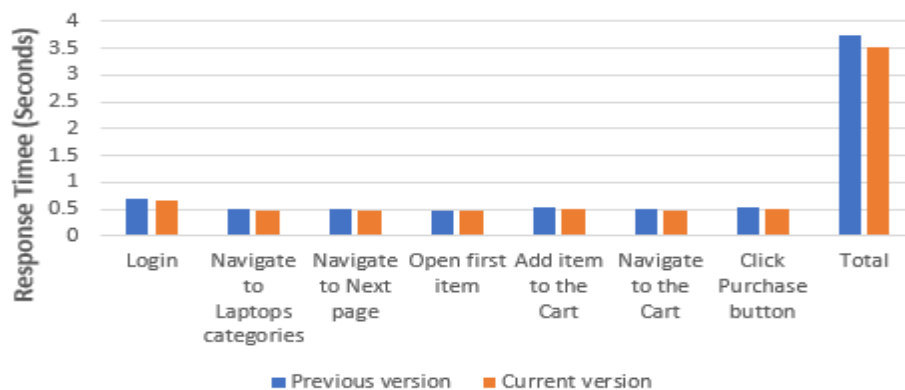
Flow name	Previous version (21.03.2023)	Current version (22.03.2023)	Change
Pagination flow	1.61 s	1.538 s	- 4.57433 %
Purchase flow	2.255 s	2.165 s	- 4.0724 %
Total	3.865 s	3.703 s	- 4.28118 %



3.1.2 Requests comparison

Requests	Previous version (21.03.2023)	Current version (22.03.2023)	Change
Login	0.682 s	0.671 s	-1.62602%
Navigate to Laptops categories	0.493 s	0.465 s	- 5.84551%
Navigate to Next page	0.499 s	0.458 s	- 8.56844%
Open first item	0.485 s	0.473 s	- 2.50522%
Add item to the Cart	0.535 s	0.487 s	- 9.39335%
Navigate to the Cart	0.514 s	0.476 s	- 7.67677%
Click Purchase button	0.538 s	0.493 s	- 19.2484%
Total	3.746 s	3.523 s	- 6.13564%

90% Response Time Stats



3.1.3 Benchmark results summary

- Every request has positive change compared to the previous version
- Each request, except Login, has response time less than 0.5 second
- There were no errors during the test execution

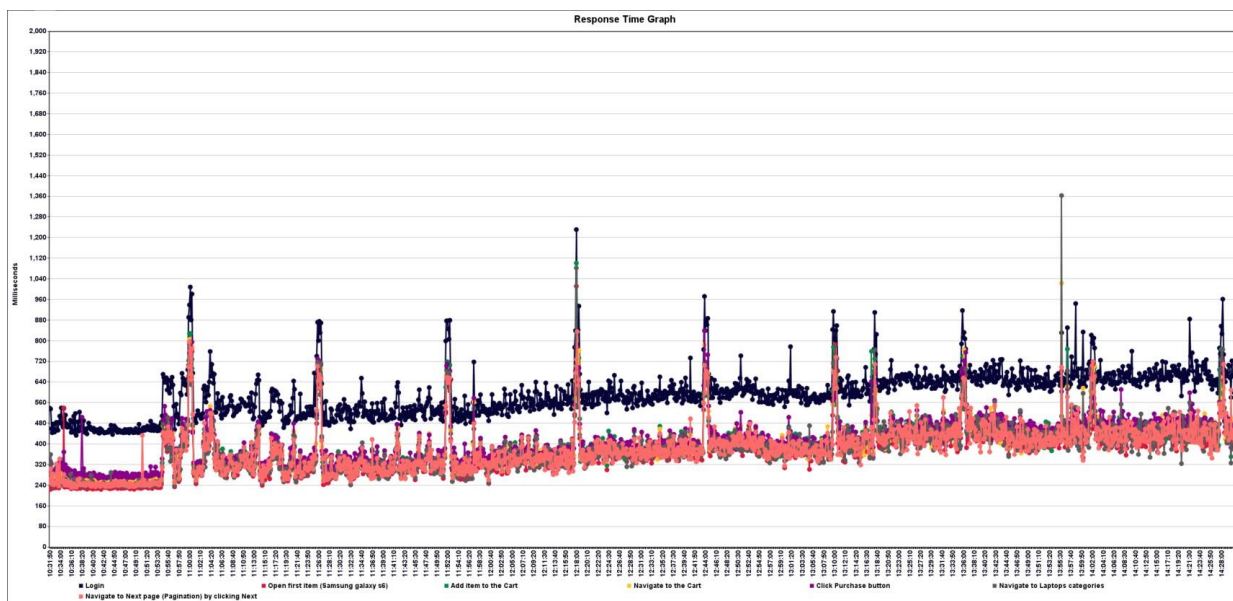
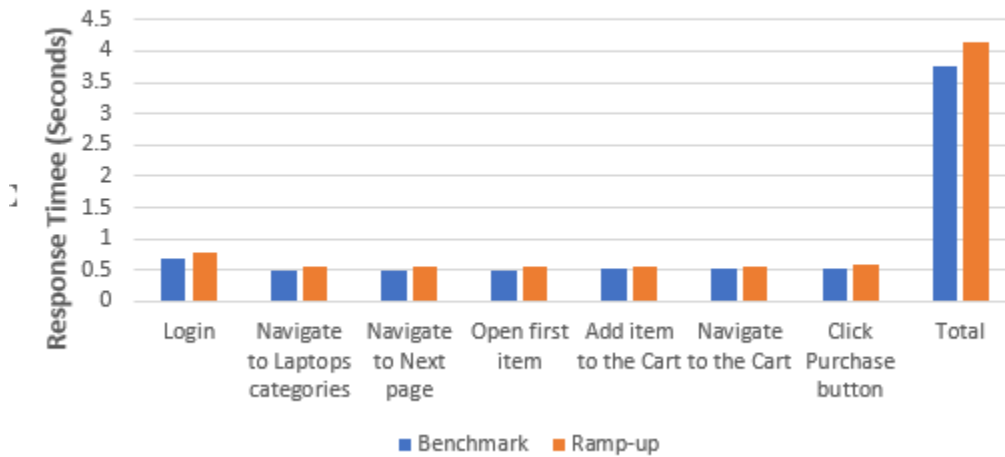
3.2 Ramp-up

Ramp-up test is run for 4 hours. Maximum number of users is 10. Ramp up time is 30 min and run up steps is 10 which means that every 3 minutes new user is added until 10 users are on the application. User distribution is set to 70% to Purchase flow and 30% to Pagination flow.

3.2.1 Requests comparison

Requests	Previous version (21.03.2023)	Current version (22.03.2023)	Change
Login	0.682 s	0.787 s	+ 14.2954%
Navigate to Laptops categories	0.493 s	0.553 s	+ 11.4723%
Navigate to Next page	0.499 s	0.555 s	+ 10.6262%
Open first item	0.485 s	0.543 s	+ 11.284%
Add item to the Cart	0.535 s	0.564 s	+ 5.27753%
Navigate to the Cart	0.514 s	0.558 s	+ 11.549%
Click Purchase button	0.538 s	0.577 s	+ 6.99552%
Total	3.746 s	4.137 s	+ 9.92008%

90% Response Time Stats



3.2.2 Ramp-up results summary

- Every request has negative change compared to the benchmark, which is expected since there were 10 users
- Each request has response time less than a second
- There were few errors during the test execution (Navigate to the Cart - 0.11%, Navigate to Laptops categories – 0.01%, Navigate to Next – 0.01%)
- Response time graph shows us that application is stable, only a few times there were some jumps of the response time