

## 1. Document profile

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Recipients - product owner, project manager, business owner

System Name - basic e-commerce portal

Version of SUT – 1.0

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## 2. Test purpose

Find system capacity.

## 3. Test setup

- test type – capacity test
- configuration system:
  - SLOWDOWN\_SERVICE\_MS\_MIN – 50
  - SLOWDOWN\_SERVICE\_MS\_MAX – 500
- users – 291
- durations – 3 mins
- operations profile:
  - Open Home Page - 291
  - View All products - 452
  - View Product Details - 515
  - Add Product to cart - 232
  - View Cart - 96
  - Checkout - 56

## 4. Test status (brief summary)

- 291 users - system capacity at which the response time does not have significant changes
- the test ran without errors
- standard deviation does not exceed half arithmetic mean
- 92 % requests:  $t < 800$  ms
- 6 % requests:  $800\text{ms} < t < 1200\text{ms}$
- 2 % requests:  $t > 1200\text{ms}$

## 5. Summary

We use the response time as the main metric. The main indicators - 50th percentile and 95th percentile.

Regular run

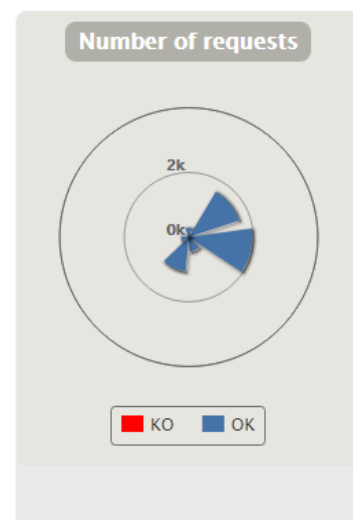
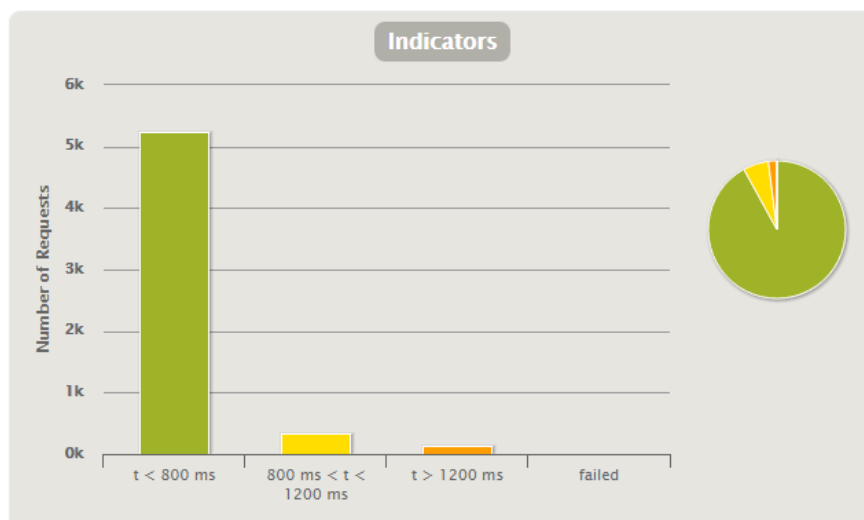
Requests	50th percentile	95th percentile
Global Information	414	864
Get token	254	455
Check Token	254	454
Get product by id	510	813
Get all products	517	818
Get product from cart	510	809
Add product to cart	1273	1820
Checkout	508	808

### Issues:

- Request "Add this item to cart": response time increases in proportion to the increase in load.
- Request "Checkout": response time increases in proportion to the increase in load.

## 6. Test results

STATISTICS						Expand all groups   Collapse all groups							
Requests ^	Executions					Response Time (ms)							
	Total ▾	OK ▾	KO ▾	% KO ▾	Req/s ▾	Min ▾	50th pct ▾	75th pct ▾	95th pct ▾	99th pct ▾	Max ▾	Mean ▾	Std Dev ▾
Global Information	5706	5706	0	0%	28.673	52	414	579	864	1472	2178	455	269
Get token	291	291	0	0%	1.462	52	254	386	455	466	478	262	129
Check Token	1642	1642	0	0%	8.251	52	254	356	454	460	513	256	130
Get product by id	1970	1970	0	0%	9.899	106	510	657	813	909	938	511	182
Get all products	452	452	0	0%	2.271	123	517	621	818	913	919	519	174
Get prod...rom cart	1063	1063	0	0%	5.342	105	510	653	809	868	925	502	185
Add product to cart	232	232	0	0%	1.166	573	1273	1471	1820	1973	2178	1276	302
Checkout	56	56	0	0%	0.281	107	508	615	808	809	810	481	195



## 7. Related artifacts

Gatling report see in folder: Capacity