

## Regular run

Regular run during 3 minutes (180 sec) with the **operations profile** (saved the correspondence between the operating profile for an hour):

1. Open Home Page 50
2. View All products 70
3. View Product Details 90
4. Add Product to cart 20
5. View Cart 12
6. Checkout 4

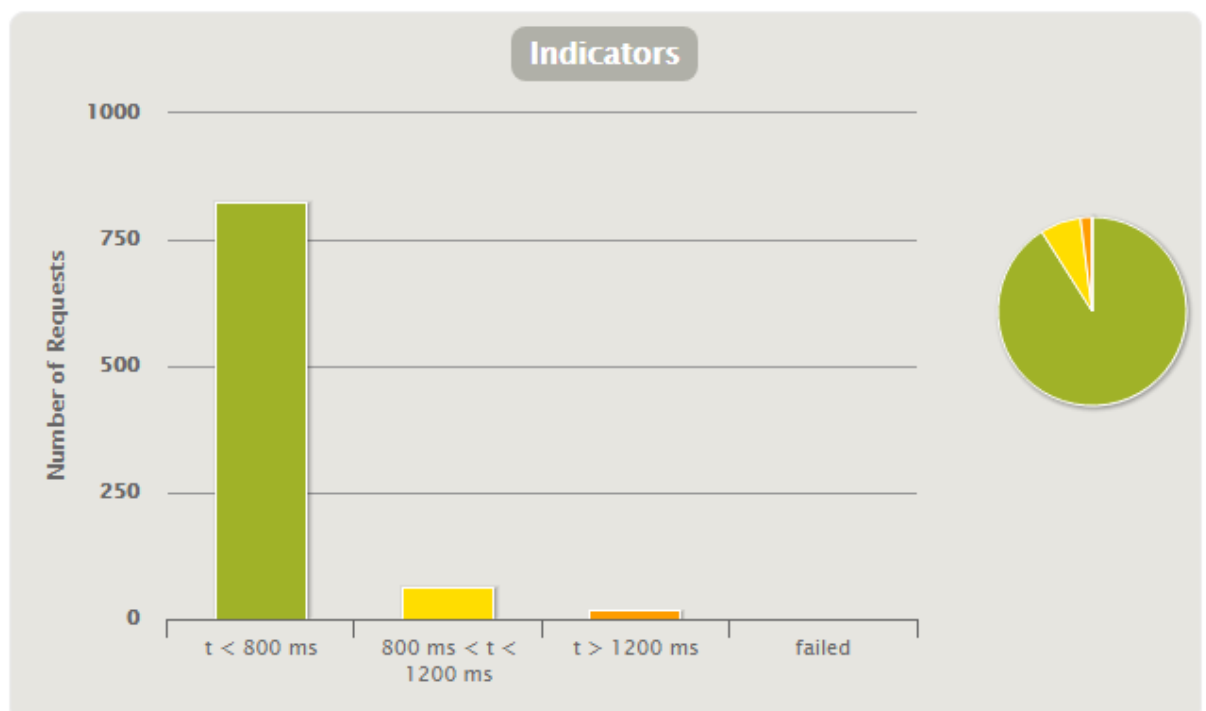
**Users** – 50

**Configuration system:**

SLOWDOWN\_SERVICE\_MS\_MIN – 50

SLOWDOWN\_SERVICE\_MS\_MAX – 500

| STATISTICS <span>Expand all groups   Collapse all groups</span> |            |      |      |        |                    |       |            |            |            |            |       |        |           |
|-----------------------------------------------------------------|------------|------|------|--------|--------------------|-------|------------|------------|------------|------------|-------|--------|-----------|
| 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                                              | 902        | 902  | 0    | 0%     | 5.067              | 52    | 453        | 613        | 875        | 1485       | 1967  | 464    | 266       |
| Get token                                                       | 50         | 50   | 0    | 0%     | 0.281              | 53    | 255        | 391        | 981        | 1047       | 1083  | 338    | 296       |
| Check Token                                                     | 246        | 246  | 0    | 0%     | 1.382              | 52    | 255        | 364        | 458        | 487        | 619   | 261    | 133       |
| Get product by id                                               | 340        | 340  | 0    | 0%     | 1.91               | 109   | 517        | 661        | 857        | 926        | 1055  | 526    | 192       |
| Get all products                                                | 70         | 70   | 0    | 0%     | 0.393              | 113   | 564        | 716        | 831        | 949        | 1132  | 534    | 215       |
| Get prod...rom cart                                             | 172        | 172  | 0    | 0%     | 0.966              | 122   | 516        | 659        | 818        | 922        | 1264  | 528    | 191       |
| Add product to cart                                             | 20         | 20   | 0    | 0%     | 0.112              | 740   | 1461       | 1596       | 1784       | 1930       | 1967  | 1412   | 300       |
| Checkout                                                        | 4          | 4    | 0    | 0%     | 0.022              | 358   | 458        | 588        | 769        | 805        | 814   | 522    | 178       |



91% requests:  $t < 800 \text{ ms}$

7% requests:  $800\text{ms} < t < 1200\text{ms}$

2% requests:  $t > 1200\text{ms}$

**Summary:** requests  $> 1200\text{ms}$  – it “Add product to cart”

## Capacity run

Regular run during 3 minutes (180 sec) with the **operations profile** (saved the correspondence between the operating profile for an hour):

1. Open Home Page 291
2. View All products 452
3. View Product Details 515
4. Add Product to cart 232
5. View Cart 96
6. Checkout 56

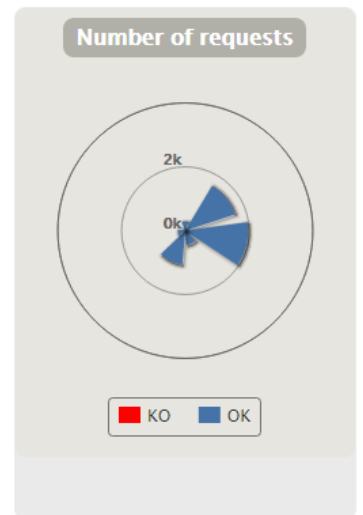
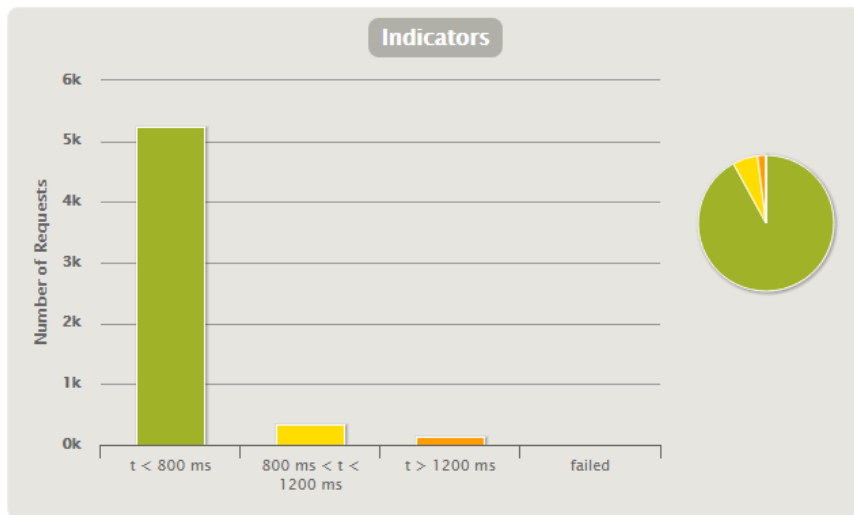
**Users** – 291

**Configuration system:**

SLOWDOWN\_SERVICE\_MS\_MIN – 50

SLOWDOWN\_SERVICE\_MS\_MAX – 500

| STATISTICS <span>Expand all groups   Collapse all groups</span> |            |      |      |        |         |                    |            |            |            |            |       |        |           |
|-----------------------------------------------------------------|------------|------|------|--------|---------|--------------------|------------|------------|------------|------------|-------|--------|-----------|
| Requests ^                                                      | Executions |      |      |        | Req/s ^ | Response Time (ms) |            |            |            |            |       |        |           |
|                                                                 | Total ^    | OK ^ | KO ^ | % KO ^ |         | 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       |



92% requests:  $t < 800$  ms

6% requests:  $800 \text{ ms} < t < 1200 \text{ ms}$

2% requests:  $t > 1200 \text{ ms}$

**Summary:** requests  $> 1200 \text{ ms}$  – it “Add product to cart”

Response time for requests “Checkout” increased from 769 ms to 808 ms. If you increase the load, the response time will increase for request “Checkout”.

### Slow service:

Regular run during 3 minutes (180 sec) with the **operations profile** (saved the correspondence between the operating profile for an hour):

1. Open Home Page 50
2. View All products 70
3. View Product Details 90
4. Add Product to cart 20
5. View Cart 12
6. Checkout 4

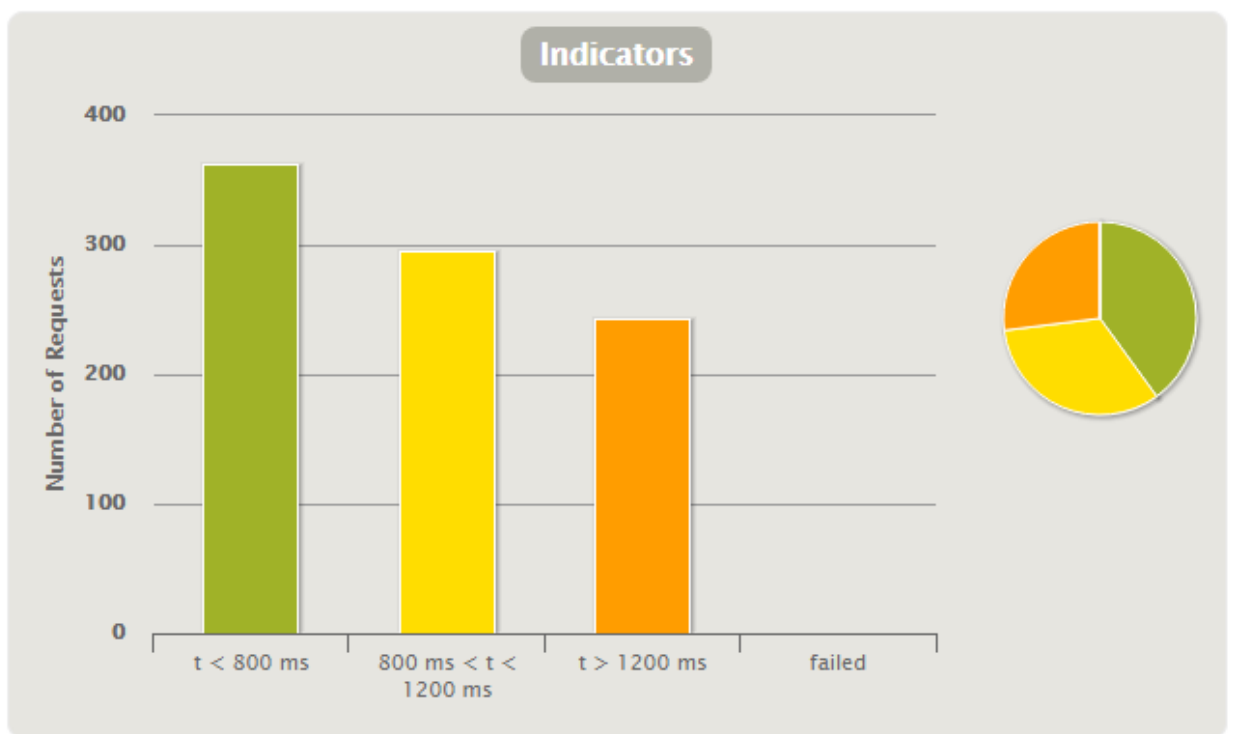
**Users** – 50

### **Configuration system:**

SLOWDOWN\_SERVICE\_MS\_MIN – 100

SLOWDOWN\_SERVICE\_MS\_MAX – 1000

| STATISTICS <span>Expand all groups   Collapse all groups</span> |            |     |    |      |                    |      |          |          |          |          |      |      |         |
|-----------------------------------------------------------------|------------|-----|----|------|--------------------|------|----------|----------|----------|----------|------|------|---------|
| 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                                              | 902        | 902 | 0  | 0%   | 4.772              | 103  | 904      | 1210     | 1673     | 2572     | 3570 | 926  | 489     |
| Get token                                                       | 50         | 50  | 0  | 0%   | 0.265              | 109  | 555      | 753      | 955      | 980      | 1002 | 540  | 256     |
| Check Token                                                     | 246        | 246 | 0  | 0%   | 1.302              | 103  | 504      | 754      | 953      | 958      | 960  | 518  | 260     |
| Get product by id                                               | 340        | 340 | 0  | 0%   | 1.799              | 208  | 1060     | 1308     | 1670     | 1809     | 1914 | 1067 | 361     |
| Get all products                                                | 70         | 70  | 0  | 0%   | 0.37               | 214  | 1070     | 1307     | 1625     | 1817     | 1823 | 1046 | 365     |
| Get prod...rom cart                                             | 172        | 172 | 0  | 0%   | 0.91               | 307  | 1111     | 1314     | 1657     | 1811     | 1865 | 1092 | 341     |
| Add product to cart                                             | 20         | 20  | 0  | 0%   | 0.106              | 1918 | 2523     | 2869     | 3382     | 3532     | 3570 | 2608 | 458     |
| Checkout                                                        | 4          | 4   | 0  | 0%   | 0.021              | 957  | 1083     | 1197     | 1287     | 1305     | 1309 | 1108 | 138     |



40% requests:  $t < 800$  ms

33% requests:  $800\text{ms} < t < 1200\text{ms}$

27% requests:  $t > 1200\text{ms}$

**Summary:** "Add product to cart" – 100%  $> 1200$  ms

## Fast service:

Regular run during 3 minutes (180 sec) with the **operations profile** (saved the correspondence between the operating profile for an hour):

1. Open Home Page 50
2. View All products 70
3. View Product Details 90
4. Add Product to cart 20
5. View Cart 12
6. Checkout 4

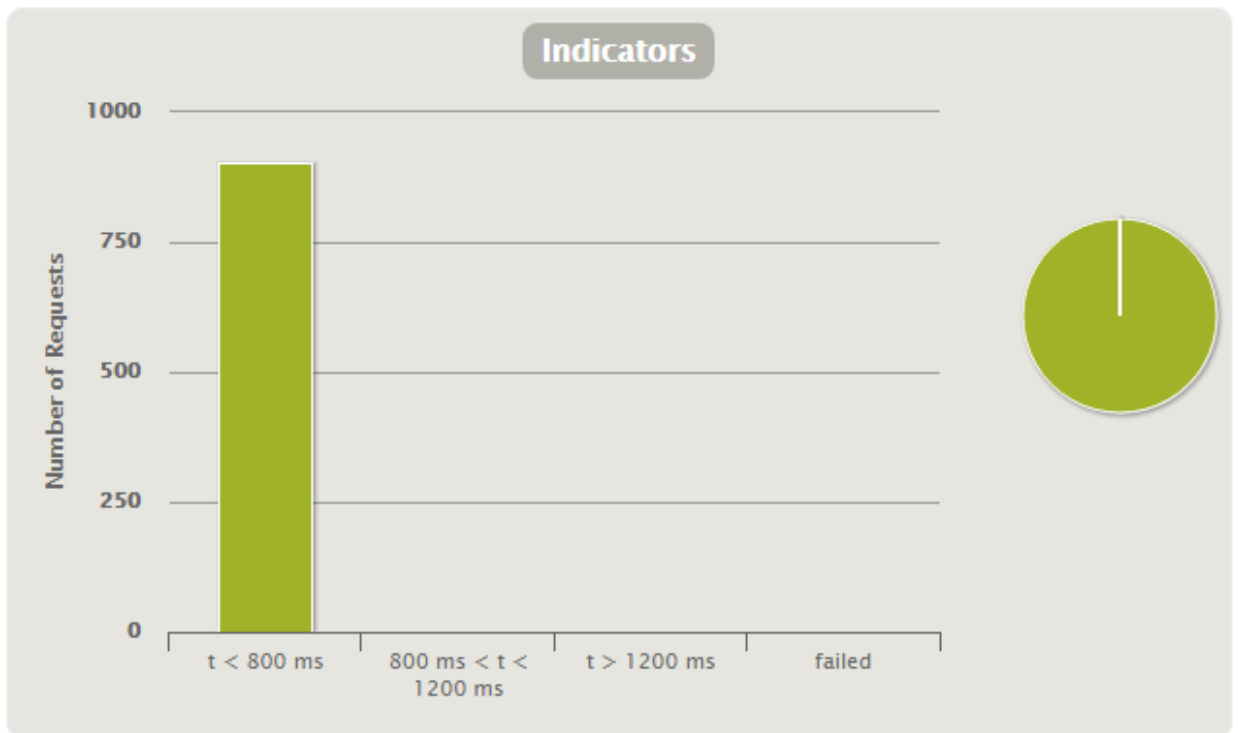
**Users** – 50

## **Configuration system:**

SLOWDOWN\_SERVICE\_MS\_MIN – 10

SLOWDOWN\_SERVICE\_MS\_MAX – 200

| STATISTICS <span>Expand all groups   Collapse all groups</span> |            |      |      |        |                    |       |            |            |            |            |       |        |           |
|-----------------------------------------------------------------|------------|------|------|--------|--------------------|-------|------------|------------|------------|------------|-------|--------|-----------|
| 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                                              | 902        | 902  | 0    | 0%     | 5.184              | 12    | 139        | 227        | 329        | 466        | 624   | 155    | 96        |
| Get token                                                       | 50         | 50   | 0    | 0%     | 0.287              | 12    | 113        | 163        | 199        | 288        | 318   | 103    | 69        |
| Check Token                                                     | 246        | 246  | 0    | 0%     | 1.414              | 12    | 67         | 119        | 167        | 175        | 323   | 86     | 59        |
| Get product by id                                               | 340        | 340  | 0    | 0%     | 1.954              | 27    | 179        | 232        | 327        | 335        | 350   | 179    | 80        |
| Get all products                                                | 70         | 70   | 0    | 0%     | 0.402              | 32    | 184        | 235        | 334        | 336        | 336   | 186    | 81        |
| Get prod...rom cart                                             | 172        | 172  | 0    | 0%     | 0.989              | 28    | 179        | 230        | 329        | 333        | 339   | 179    | 78        |
| Add product to cart                                             | 20         | 20   | 0    | 0%     | 0.115              | 226   | 442        | 534        | 574        | 614        | 624   | 439    | 116       |
| Checkout                                                        | 4          | 4    | 0    | 0%     | 0.023              | 41    | 105        | 154        | 212        | 224        | 227   | 119    | 70        |



**Summary:** All requests < 800ms

### **Stress:**

For stress testing, approximately 40% added to the load capacity.

Regular run during 3 minutes (180 sec) with the **operations profile** (saved the correspondence between the operating profile for an hour):

1. Open Home Page 386
2. View All products 599
3. View Product Details 682
4. Add Product to cart 311
5. View Cart 129
6. Checkout 75

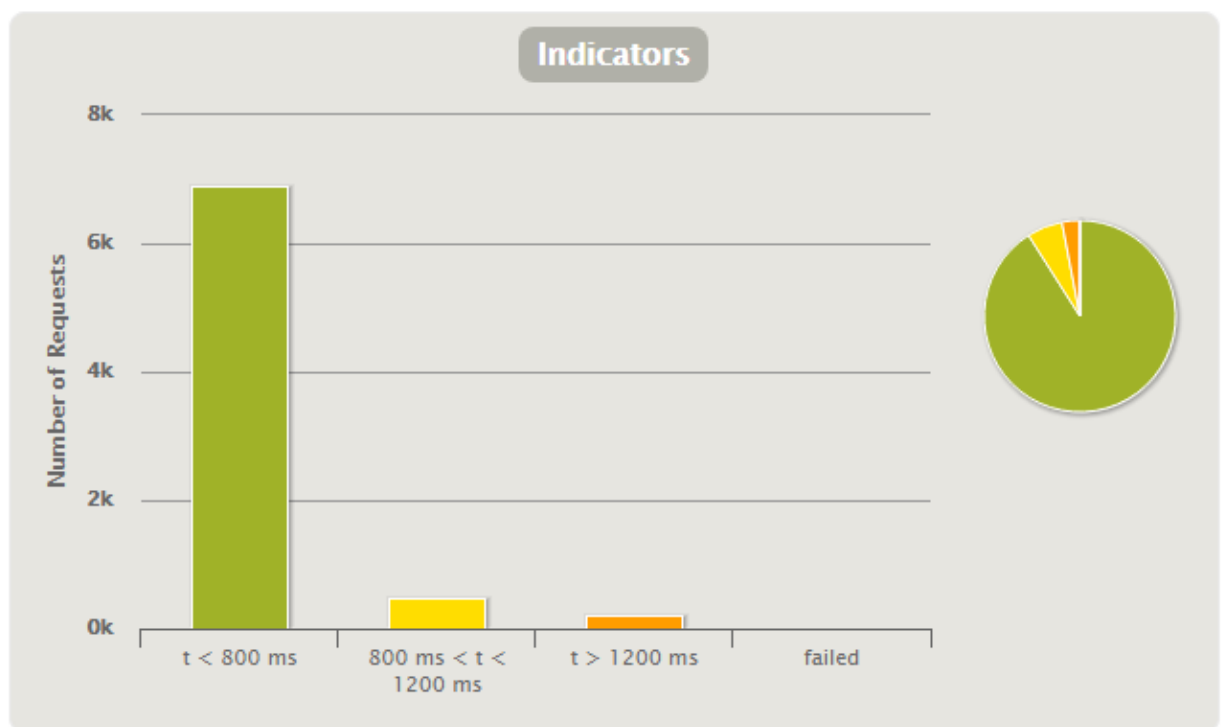
**Users** – 386

### **Configuration system:**

SLOWDOWN\_SERVICE\_MS\_MIN – 50

SLOWDOWN\_SERVICE\_MS\_MAX – 500

| STATISTICS <span>Expand all groups   Collapse all groups</span> |            |      |    |      |                    |     |          |          |          |          |      |      |         |
|-----------------------------------------------------------------|------------|------|----|------|--------------------|-----|----------|----------|----------|----------|------|------|---------|
| 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                                              | 7575       | 7575 | 0  | 0%   | 37.5               | 51  | 423      | 609      | 875      | 1476     | 2071 | 463  | 274     |
| Get token                                                       | 386        | 386  | 0  | 0%   | 1.911              | 51  | 254      | 355      | 454      | 464      | 493  | 250  | 125     |
| Check Token                                                     | 2182       | 2182 | 0  | 0%   | 10.802             | 51  | 255      | 356      | 455      | 466      | 629  | 258  | 129     |
| Get product by id                                               | 2612       | 2612 | 0  | 0%   | 12.931             | 106 | 512      | 658      | 821      | 909      | 1076 | 519  | 183     |
| Get all products                                                | 599        | 599  | 0  | 0%   | 2.965              | 113 | 519      | 663      | 820      | 911      | 921  | 522  | 183     |
| Get prod...rom cart                                             | 1410       | 1410 | 0  | 0%   | 6.98               | 108 | 513      | 659      | 857      | 912      | 932  | 525  | 185     |
| Add product to cart                                             | 311        | 311  | 0  | 0%   | 1.54               | 474 | 1318     | 1474     | 1721     | 1940     | 2071 | 1299 | 281     |
| Checkout                                                        | 75         | 75   | 0  | 0%   | 0.371              | 111 | 518      | 659      | 836      | 890      | 911  | 535  | 190     |



91% requests: t < 800 ms

6% requests: 800ms < t < 1200ms

3% requests: t > 1200ms

**Summary:** requests > 1200ms – “Add product to cart”

// TBD. Capacity system need double check. Incorrect result test.