

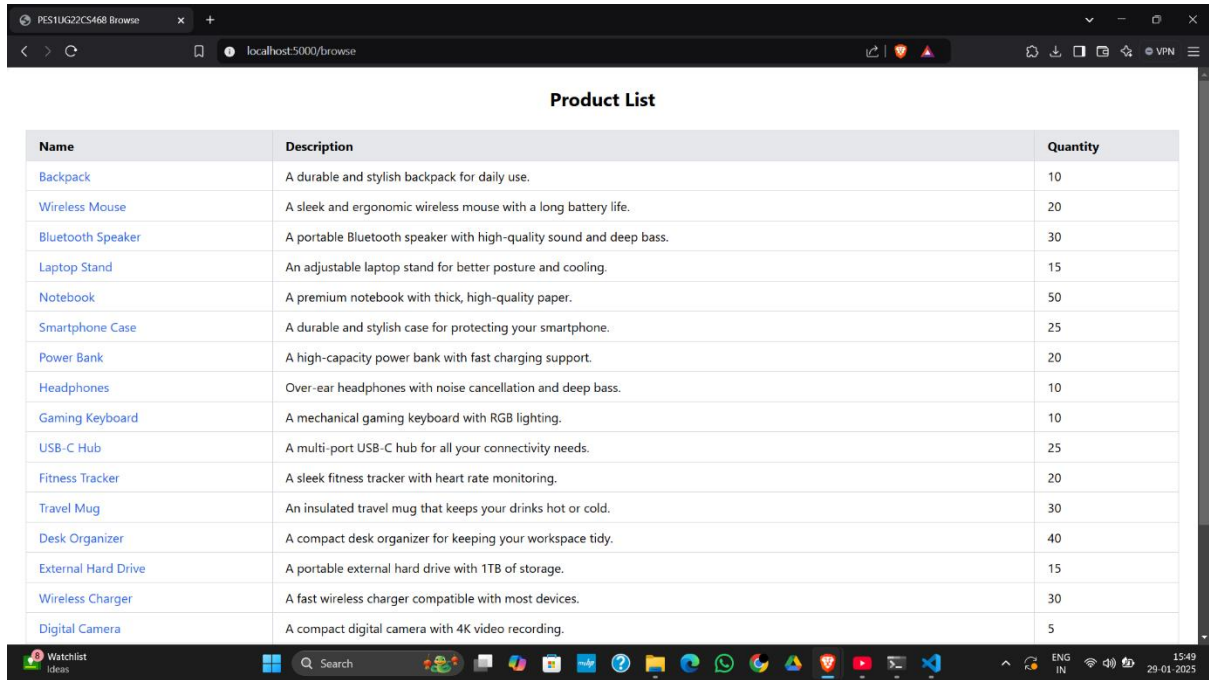
Cloud Computing Lab – 03

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Section: H

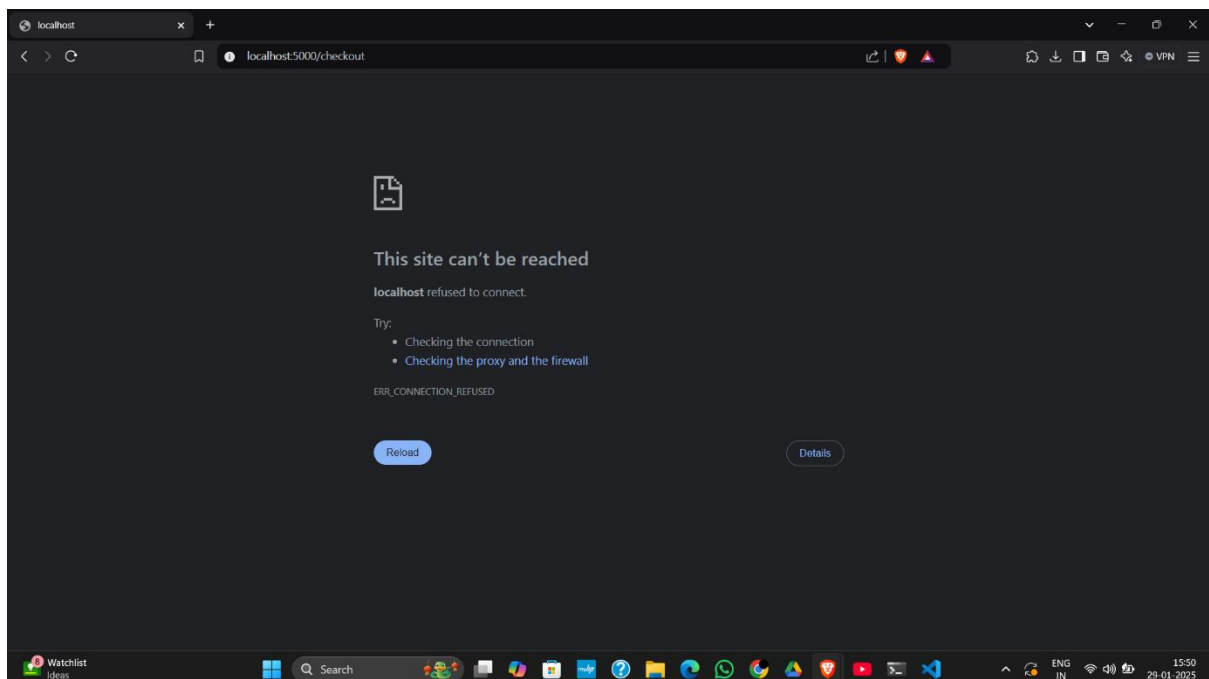
SS1)



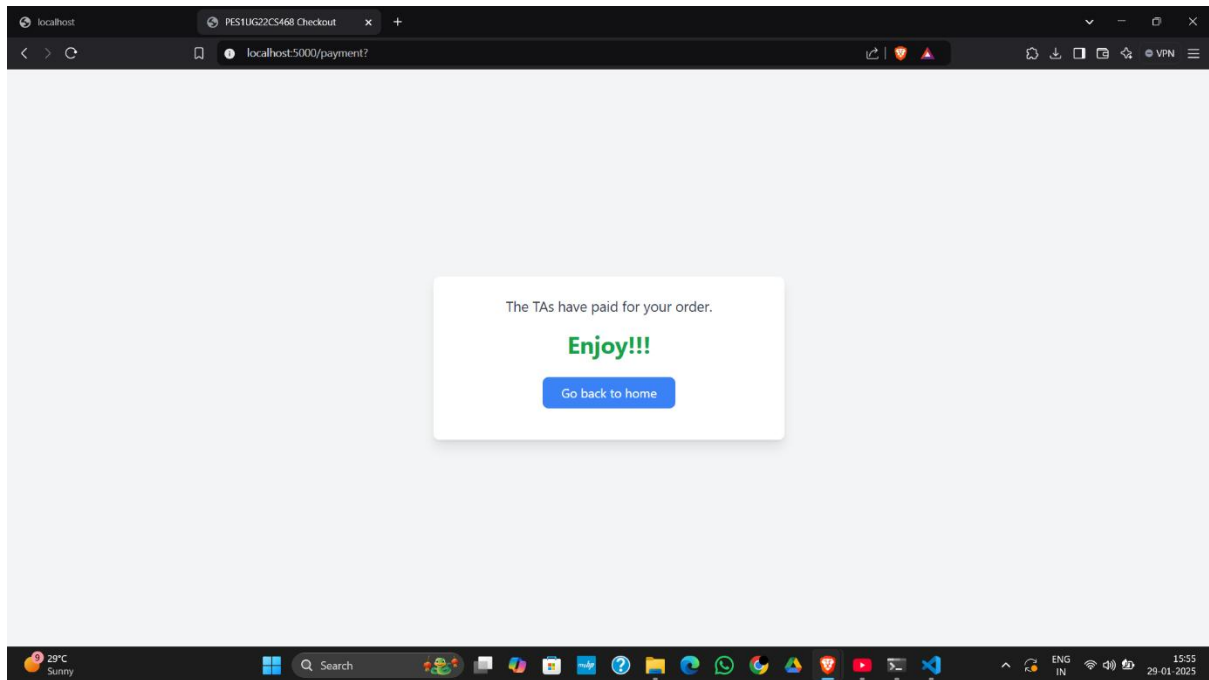
The screenshot shows a web browser window with the address bar displaying 'localhost:5000/browse'. The page title is 'Product List'. Below the title is a table with three columns: Name, Description, and Quantity. The table contains 15 rows of product information. The browser's taskbar at the bottom shows various application icons and the system clock indicating 15:49 on 29-01-2025.

Name	Description	Quantity
Backpack	A durable and stylish backpack for daily use.	10
Wireless Mouse	A sleek and ergonomic wireless mouse with a long battery life.	20
Bluetooth Speaker	A portable Bluetooth speaker with high-quality sound and deep bass.	30
Laptop Stand	An adjustable laptop stand for better posture and cooling.	15
Notebook	A premium notebook with thick, high-quality paper.	50
Smartphone Case	A durable and stylish case for protecting your smartphone.	25
Power Bank	A high-capacity power bank with fast charging support.	20
Headphones	Over-ear headphones with noise cancellation and deep bass.	10
Gaming Keyboard	A mechanical gaming keyboard with RGB lighting.	10
USB-C Hub	A multi-port USB-C hub for all your connectivity needs.	25
Fitness Tracker	A sleek fitness tracker with heart rate monitoring.	20
Travel Mug	An insulated travel mug that keeps your drinks hot or cold.	30
Desk Organizer	A compact desk organizer for keeping your workspace tidy.	40
External Hard Drive	A portable external hard drive with 1TB of storage.	15
Wireless Charger	A fast wireless charger compatible with most devices.	30
Digital Camera	A compact digital camera with 4K video recording.	5

SS2)



SS3)



SS4)


Locust												HOST http://localhost:5000	STATUS STOPPED	RPS 24.4	FAILURES 0%	NEW	
STATISTICS																	
Type	Name	# Requests	# Fails	Median (ms)	95%ile (ms)	99%ile (ms)	Average (ms)	Min (ms)	Max (ms)	Average size (bytes)	Current RPS	Current Failures/s					
GET	/checkout	766	0	30	58	96	34.22	24	169	700	24.4	0					
	Aggregated	766	0	30	58	96	34.22	24	169	700	24.4	0					

```
ranjanhr@Ranjan:~/PES1UG22CS468/CC_Monolith$ locust -f locust/checkout-locustfile.py
[2025-01-29 10:29:25.056] Ranjan/INFO/locust.main: Starting web interface at http://0.0.0.0:8089
[2025-01-29 10:29:25.064] Ranjan/INFO/locust.main: Starting Locust
[2025-01-29 10:30:12.111] Ranjan/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2025-01-29 10:30:12.131] Ranjan/INFO/locust.runners: All users spawned: {"checkout": 1} (1 total users)
KeyboardInterrupt
2025-01-29T10:31:36Z
[2025-01-29 10:31:36.897] Ranjan/INFO/locust.main: Shutting down (exit code 0)
Type      Name      # reqs      # fails      Avg      Min      Max      Med      req/s      failures/s
-----
GET      /checkout      868      0(0.00%)      33      24      169      29      28.92      0.00
-----
Aggregated      868      0(0.00%)      33      24      169      29      28.92      0.00
-----

Response time percentiles (approximated)
Type      Name      50%      66%      75%      80%      90%      95%      98%      99%      99.9%      99.99
%      100%      # reqs
-----
GET      /checkout      29      32      35      38      45      57      75      96      170      17
0      170      868
-----
Aggregated      29      32      35      38      45      57      75      96      170      17
0      170      868
-----

ranjanhr@Ranjan:~/PES1UG22CS468/CC_Monolith$
```

SS5)



Locust

HOST

http://localhost:5000

STATUS

STOPPED


RPS

64.3

FAILURES

0%

NEW



STATISTICS

CHARTS

FAILURES

EXCEPTIONS

CURRENT RATIO

DOWNLOAD DATA

LOGS

0

170

868

29

32

35

38

45

57

75

96

170

17

Type	Name	# Requests	# Fails	Median (ms)	95%ile (ms)	99%ile (ms)	Average (ms)	Min (ms)	Max (ms)	Average size (bytes)	Current RPS	Current Failures/s
GET	/checkout	1867	0	12	21	32	13.52	8	107	704	64.3	0
	Aggregated	1867	0	12	21	32	13.52	8	107	704	64.3	0

```
ranjanhr@Ranjan: ~/PES1UG2 x + v
Aggregated      29      32      35      38      45      57      75      96      170      17
0      170      868

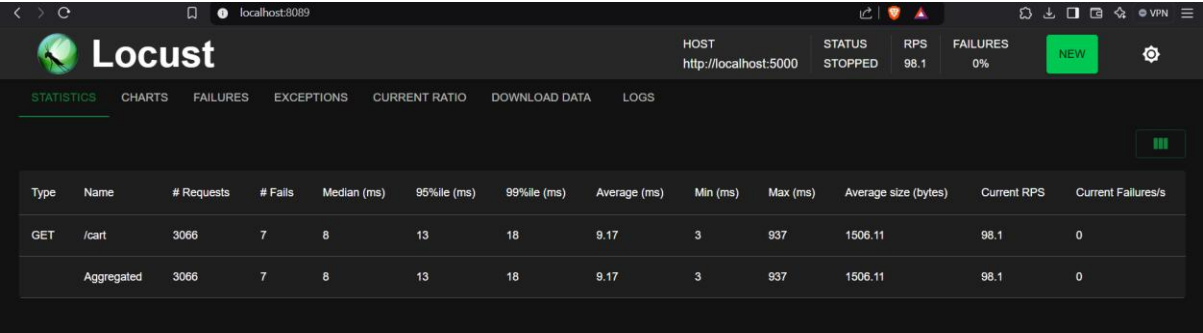
ranjanhr@Ranjan:~/PES1UG22CS468/CC_Monolith$ locust -f locust/checkout-locustfile.py
[2025-01-29 10:35:08.246] Ranjan/INFO/locust.main: Starting web interface at http://0.0.0.0:8089
[2025-01-29 10:35:08.255] Ranjan/INFO/locust.main: Starting Locust
[2025-01-29 10:35:19.405] Ranjan/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2025-01-29 10:35:19.457] Ranjan/INFO/locust.runners: All users spawned: {"checkout": 1} (1 total users)
KeyboardInterrupt
2025-01-29T10:36:14Z
[2025-01-29 10:36:14.366] Ranjan/INFO/locust.main: Shutting down (exit code 0)
Type      Name      # reqs      # fails      Avg      Min      Max      Med      req/s      failures/s
-----
GET      /checkout      2147      0(0.00%)      13      8      107      12      71.53      0.00
-----
Aggregated      2147      0(0.00%)      13      8      107      12      71.53      0.00
-----

Response time percentiles (approximated)
Type      Name      50%      66%      75%      80%      90%      95%      98%      99%      99.9%      99.99
%      100%      # reqs
-----
GET      /checkout      12      13      14      15      17      21      26      30      79      11
0      110      2147
-----
Aggregated      12      13      14      15      17      21      26      30      79      11
0      110      2147
-----

ranjanhr@Ranjan:~/PES1UG22CS468/CC_Monolith$
```

SS6)

Before: cart



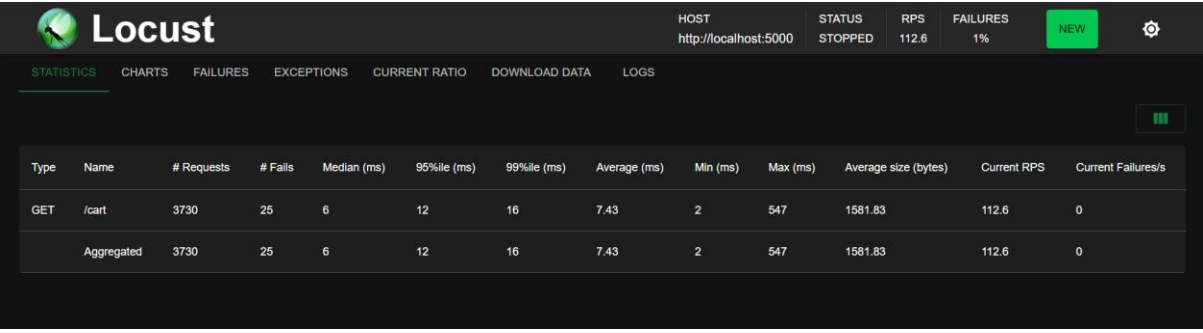
```
ranjanhr@Ranjan:~/PES1UG22CS468/CC_Monolith$ locust -f locust/get-cart-locustfile.py
[2025-01-29 10:41:12,089] Ranjan/INFO/locust.main: Starting web interface at http://0.0.0.0:8089
[2025-01-29 10:41:12,096] Ranjan/INFO/locust.main: Starting Locust
[2025-01-29 10:41:29,906] Ranjan/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2025-01-29 10:41:29,925] Ranjan/INFO/locust.runners: All users spawned: {"add_to_cart": 1} (1 total users)
[2025-01-29 10:42:48,011] Ranjan/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2025-01-29 10:42:48,028] Ranjan/INFO/locust.runners: All users spawned: {"add_to_cart": 1} (1 total users)
[2025-01-29 10:43:20,689] Ranjan/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2025-01-29 10:43:20,708] Ranjan/INFO/locust.runners: All users spawned: {"add_to_cart": 1} (1 total users)
KeyboardInterrupt
2025-01-29T10:44:27Z
[2025-01-29 10:44:27,759] Ranjan/INFO/locust.main: Shutting down (exit code 1)
Type      Name      # reqs    # fails    Avg      Min      Max      Med      req/s    failures/s
-----
GET      /cart      3067      8(0.26%)   9         3        937      8        102.24    0.27
Aggregated      3067      8(0.26%)   9         3        937      8        102.24    0.27

Response time percentiles (approximated)
Type      Name      50%      66%      75%      80%      90%      95%      98%      99%      99.9%  99.99%  100%  # reqs
-----
GET      /cart      8         9        10        10        12        13        15        18        570     940     940   3067
Aggregated      8         9        10        10        12        13        15        18        570     940     940   3067

Error report
# occurrences    Error
-----
5                GET /cart: BadStatusCode('http://localhost:5000/login', code=500)
3                GET /cart: BadStatusCode('http://localhost:5000/cart', code=500)
```

SS7)

After: cart




```
ranjanhr@Ranjan:~/PES1UG22CS468/CC_Monolith$ locust -f locust/get-cart-locustfile.py
[2025-01-29 10:45:58,598] Ranjan/INFO/locust.main: Starting web interface at http://0.0.0.0:8089
[2025-01-29 10:45:58,606] Ranjan/INFO/locust.main: Starting Locust
[2025-01-29 10:46:05,487] Ranjan/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2025-01-29 10:46:05,566] Ranjan/INFO/locust.runners: All users spawned: {"add_to_cart": 1} (1 total users)
[2025-01-29 10:47:28,611] Ranjan/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2025-01-29 10:47:28,642] Ranjan/INFO/locust.runners: All users spawned: {"add_to_cart": 1} (1 total users)
KeyboardInterrupt
2025-01-29T10:48:15Z
[2025-01-29 10:48:15,263] Ranjan/INFO/locust.main: Shutting down (exit code 1)
Type      Name      # reqs      # fails      Avg      Min      Max      Med      req/s      failures/s
-----
GET /cart 3734 27(0.72%) 7 2 547 6 124.50 0.90
Aggregated 3734 27(0.72%) 7 2 547 6 124.50 0.90

Response time percentiles (approximated)
Type      Name      % 100% # reqs      50%      66%      75%      80%      90%      95%      98%      99%      99.9%      99.99
-----
GET /cart 0 550 3734 6 8 8 9 10 12 14 16 220 55
Aggregated 0 550 3734 6 8 8 9 10 12 14 16 220 55

Error report
# occurrences      Error
-----
14 GET /cart: BadStatusCode('http://localhost:5000/login', code=500)
13 GET /cart: BadStatusCode('http://localhost:5000/cart', code=500)
ranjanhr@Ranjan:~/PES1UG22CS468/CC_Monolith$ |
```

SS8)

Before: browse



Locust


HOST
http://localhost:5000

STATUS
STOPPED

RPS
194.8

FAILURES
0%

NEW



STATISTICS CHARTS FAILURES EXCEPTIONS CURRENT RATIO DOWNLOAD DATA LOGS

III


Type	Name	# Requests	# Fails	Median (ms)	95%ile (ms)	99%ile (ms)	Average (ms)	Min (ms)	Max (ms)	Average size (bytes)	Current RPS	Current Failures/s
GET	/browse	5953	0	4	7	9	4.11	1	310	9533	194.8	0
	Aggregated	5953	0	4	7	9	4.11	1	310	9533	194.8	0

```
ranjanhr@Ranjan:~/PES1UG22CS468/CC_Monolith$ locust -f locust/browse-locustfile.py
[2025-01-29 10:51:05,228] Ranjan/INFO/locust.main: Starting web interface at http://0.0.0.0:8089
[2025-01-29 10:51:05,236] Ranjan/INFO/locust.main: Starting Locust
[2025-01-29 10:51:21,510] Ranjan/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2025-01-29 10:51:21,511] Ranjan/INFO/locust.runners: All users spawned: {"browse": 1} (1 total users)
[2025-01-29 10:51:37,870] Ranjan/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2025-01-29 10:51:37,871] Ranjan/INFO/locust.runners: All users spawned: {"browse": 1} (1 total users)
KeyboardInterrupt
2025-01-29T10:52:21Z
[2025-01-29 10:52:21,709] Ranjan/INFO/locust.main: Shutting down (exit code 0)
Type      Name      # reqs      # fails      Avg      Min      Max      Med      req/s      failures/s
-----
GET /browse 6305 0(0.00%) 4 1 310 4 211.95 0.00
Aggregated 6305 0(0.00%) 4 1 310 4 211.95 0.00

Response time percentiles (approximated)
Type      Name      % 100% # reqs      50%      66%      75%      80%      90%      95%      98%      99%      99.9%      99.99
-----
GET /browse 0 310 6305 4 5 5 5 6 7 8 9 77 31
Aggregated 0 310 6305 4 5 5 5 6 7 8 9 77 31
ranjanhr@Ranjan:~/PES1UG22CS468/CC_Monolith$ |
```

SS9)

After: browse



Locust

HOST

http://localhost:5000

STATUS

STOPPED


RPS

197.7

FAILURES

0%

NEW



STATISTICS

CHARTS


FAILURES

EXCEPTIONS

CURRENT RATIO

DOWNLOAD DATA

LOGS



Type	Name	# Requests	# Fails	Median (ms)	95%ile (ms)	99%ile (ms)	Average (ms)	Min (ms)	Max (ms)	Average size (bytes)	Current RPS	Current Failures/s
GET	/browse	6293	0	3	7	10	4.18	1	372	9533	197.7	0
	Aggregated	6293	0	3	7	10	4.18	1	372	9533	197.7	0

```
ranjanhr@Ranjan:~/PES1UG22CS468/CC_Monolith$ locust -f locust/browse-locustfile.py
[2025-01-29 18:53:41.899] Ranjan/INFO/locust.main: Starting web interface at http://0.0.0.0:8089
[2025-01-29 18:53:41.907] Ranjan/INFO/locust.main: Starting Locust
[2025-01-29 18:53:53.489] Ranjan/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2025-01-29 18:53:53.489] Ranjan/INFO/locust.runners: All users spawned: {"browse": 1} (1 total users)
[2025-01-29 18:54:46.990] Ranjan/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2025-01-29 18:54:46.991] Ranjan/INFO/locust.runners: All users spawned: {"browse": 1} (1 total users)
KeyboardInterrupt
[2025-01-29 18:55:35.218] Ranjan/INFO/locust.main: Shutting down (exit code 0)
Type      Name      # reqs      # fails      Avg      Min      Max      Med      req/s      failures/s
-----
GET      /browse      6296      0(0.00%)      4      1      372      3      209.90      0.00
Aggregated      6296      0(0.00%)      4      1      372      3      209.90      0.00

Response time percentiles (approximated)
Type      Name      % 100th # reqs      50%      66%      75%      80%      90%      95%      98%      99%      99.9%      99.99
-----
GET      /browse      0 370 6296      3      5      5      5      6      7      9      10      160      37
Aggregated      0 370 6296      3      5      5      5      6      7      9      10      160      37

ranjanhr@Ranjan:~/PES1UG22CS468/CC_Monolith$ |
```