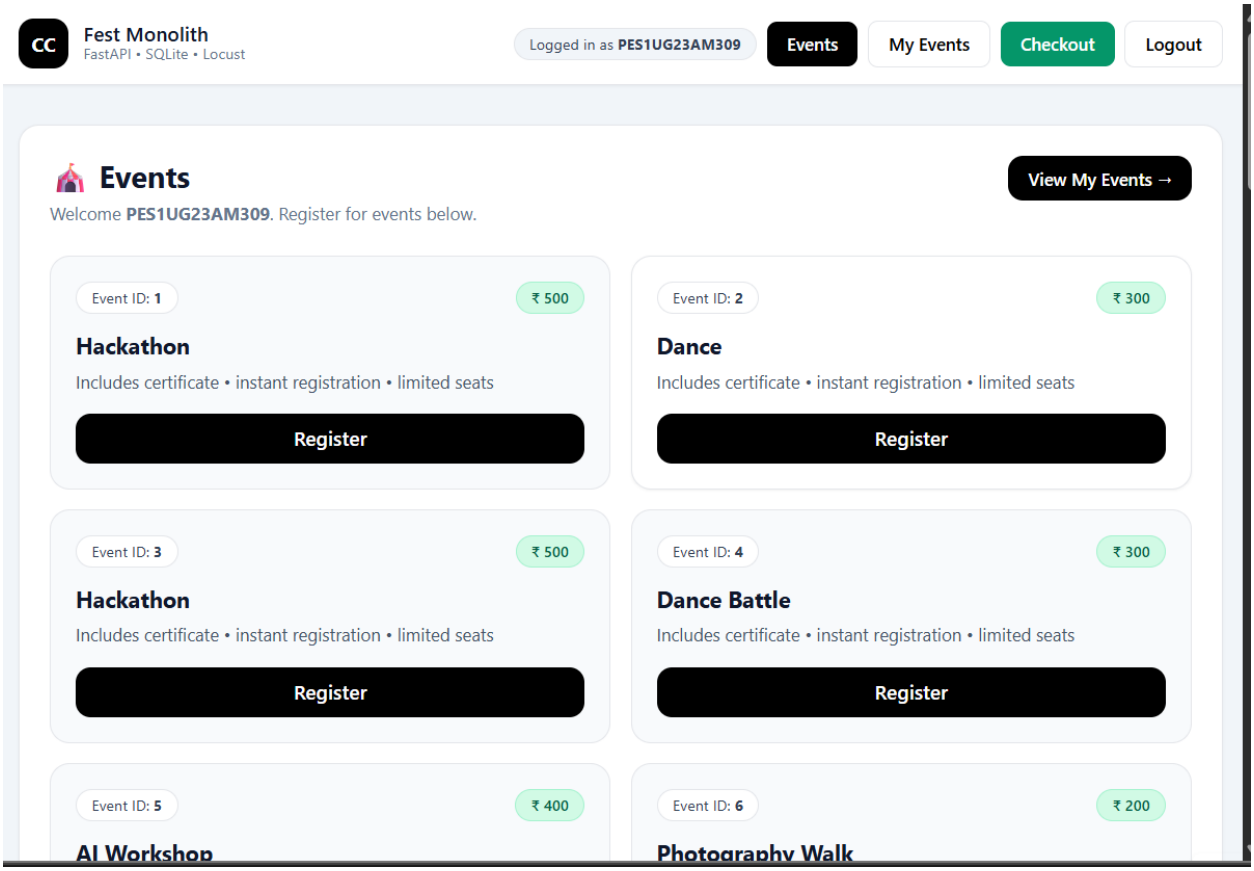
- Name: SNEHA VERMA
- SRN: PES1UG23AM309
- Lab: 02

```
(.venv) C:\Users\ASUS\PES1UG23AM309\CCLab-2\CCLab-2>python insert_events.py
✅ Events inserted successfully!
```

```
(.venv) C:\Users\ASUS\PES1UG23AM309\CCLab-2\CCLab-2>uvicorn main:app
INFO:     Started server process [22812]
INFO:     Waiting for application startup.
INFO:     Application startup complete.
INFO:     Uvicorn running on http://127.0.0.1:8000 (Press CTRL+C to quit)
```



CC Fest Monolith
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Monolith Failure

HTTP 500

One bug in one module impacted the **entire application**.

Error Message

```
division by zero
```

Why did this happen?

Because this is a **monolithic application**: all modules share the same runtime and deployment. When one feature crashes, it affects the whole system.

What should you do in the lab?

- Take a screenshot (crash demonstration)
- Fix the bug in the indicated module
- Restart the server and verify recovery

Back to Events | Login

CC Week X • Monolithic Applications Lab

```
  File "C:\Users\ASUS\PES1UG23AM309\CCLab-2\CCLab-2\.venv\Lib\site-packages\anyio\_backends\_asyncio.py", line 986, in run
    result = context.run(func, *args)
  File "C:\Users\ASUS\PES1UG23AM309\CCLab-2\CCLab-2\main.py", line 113, in checkout
    total = checkout_logic()
  File "C:\Users\ASUS\PES1UG23AM309\CCLab-2\CCLab-2\checkout\__init__.py", line 9, in checkout_logic
    1 / 0
    ~~^~~
ZeroDivisionError: division by zero
```

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Checkout

This route is used to demonstrate a monolith crash + optimization.

Total Payable

₹ 9500

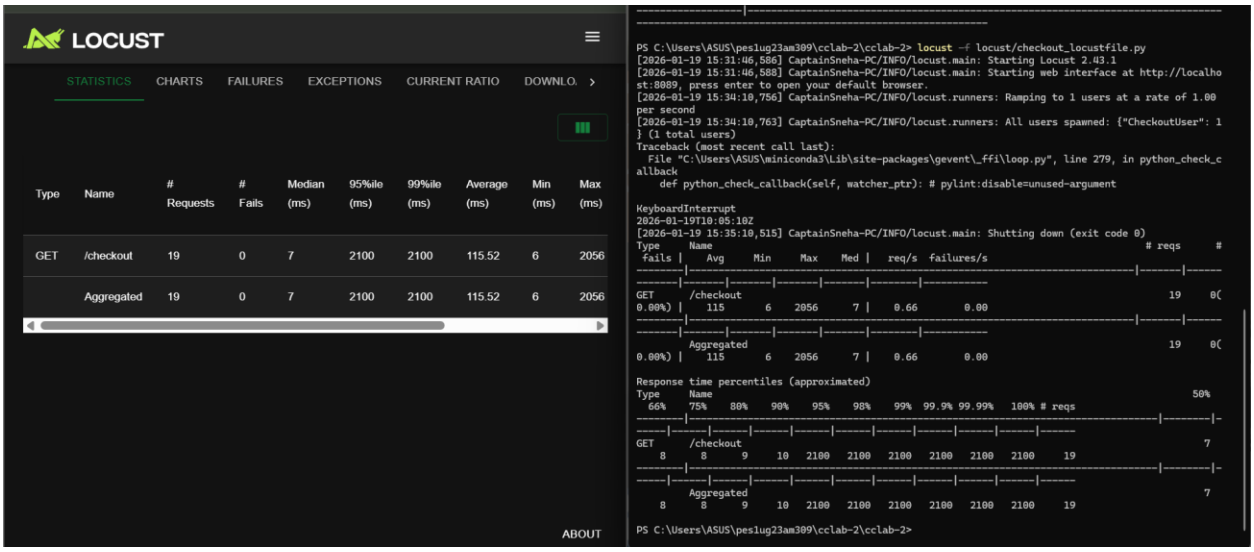
✅ After fixing + optimizing checkout logic, re-run Locust and compare results.

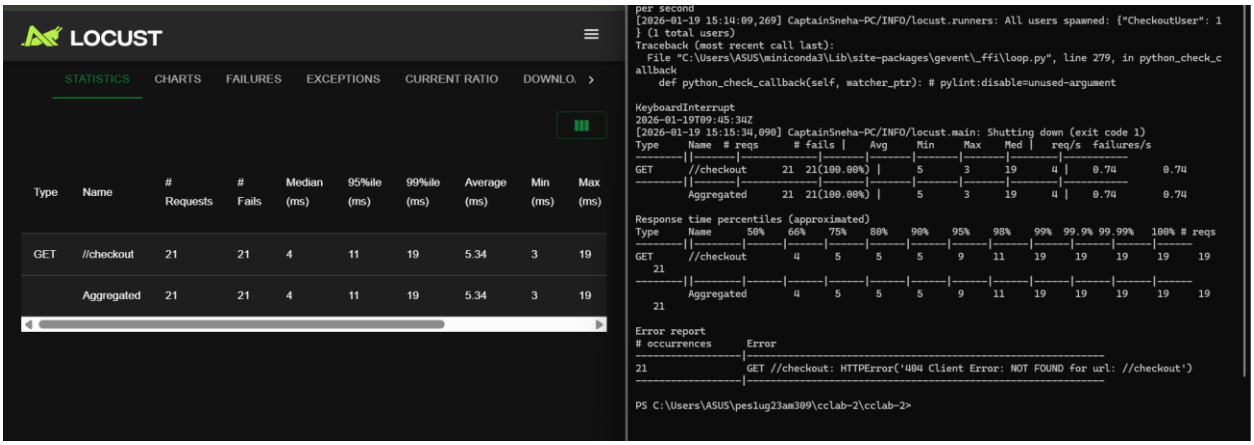
What you should observe

- One buggy feature can crash the entire monolith.
- Inefficient loops cause high response times under load.
- Optimization improves performance but architecture still scales as one unit.

Next Lab: Split this monolith into Microservices (Events / Registration / Checkout).

CC Week X • Monolithic Applications Lab


LOCUST
STATISTICS
CHARTS
FAILURES
EXCEPTIONS
CURRENT RATIO
DOWNLO.
Type Name # Requests # Fails Median (ms) 95%ile (ms) 99%ile (ms) Average (ms) Min (ms) Max (ms)
GET /checkout 19 0 7 2100 2100 115.52 6 2056
Aggregated 19 0 7 2100 2100 115.52 6 2056
ABOUT
PS C:\Users\ASUS\pes1ug23am309\cclab-2\cclab-2> locust -f locust/checkout_locustfile.py
[2026-01-19 15:31:46,586] CaptainSneha-PC/INFO/locust.main: Starting Locust 2.43.1
[2026-01-19 15:31:46,588] CaptainSneha-PC/INFO/locust.main: Starting web interface at http://localhost:8089, press enter to open your default browser.
[2026-01-19 15:34:10,756] CaptainSneha-PC/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2026-01-19 15:34:10,763] CaptainSneha-PC/INFO/locust.runners: All users spawned: {"CheckoutUser": 1} (1 total users)
Traceback (most recent call last):
File "C:\Users\ASUS\miniconda3\Lib\site-packages\gevent_ffi\loop.py", line 279, in python_check_callback
def python_check_callback(self, watcher_ptr): # pylint:disable=unused-argument
KeyboardInterrupt
2026-01-19T10:05:10Z
[2026-01-19 15:35:10,515] CaptainSneha-PC/INFO/locust.main: Shutting down (exit code 0)
Type Name # reqs # fails | Avg Min Max Med | req/s failures/s
GET /checkout 19 0(0.00%) | 115 6 2056 7 | 0.66 0.00
Aggregated 19 0(0.00%) | 115 6 2056 7 | 0.66 0.00
Response time percentiles (approximated)
Type Name 50% 66% 75% 80% 90% 95% 98% 99% 99.9% 99.99% 100% # reqs
GET /checkout 7 8 8 9 10 2100 2100 2100 2100 2100 2100 19
Aggregated 7 8 8 9 10 2100 2100 2100 2100 2100 2100 19
PS C:\Users\ASUS\pes1ug23am309\cclab-2\cclab-2>


LOCUST
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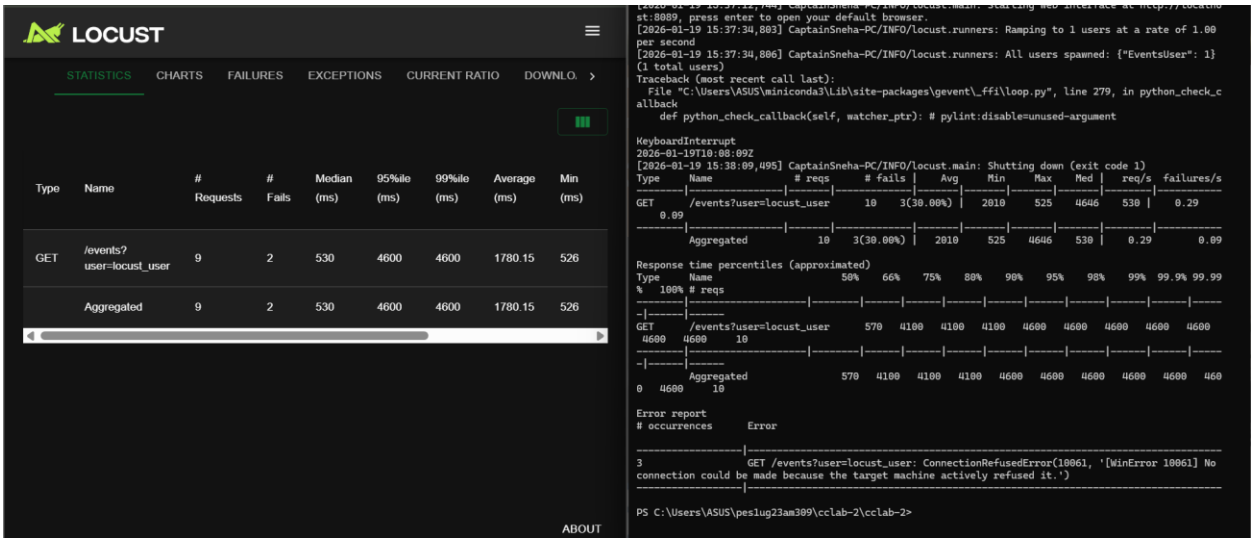
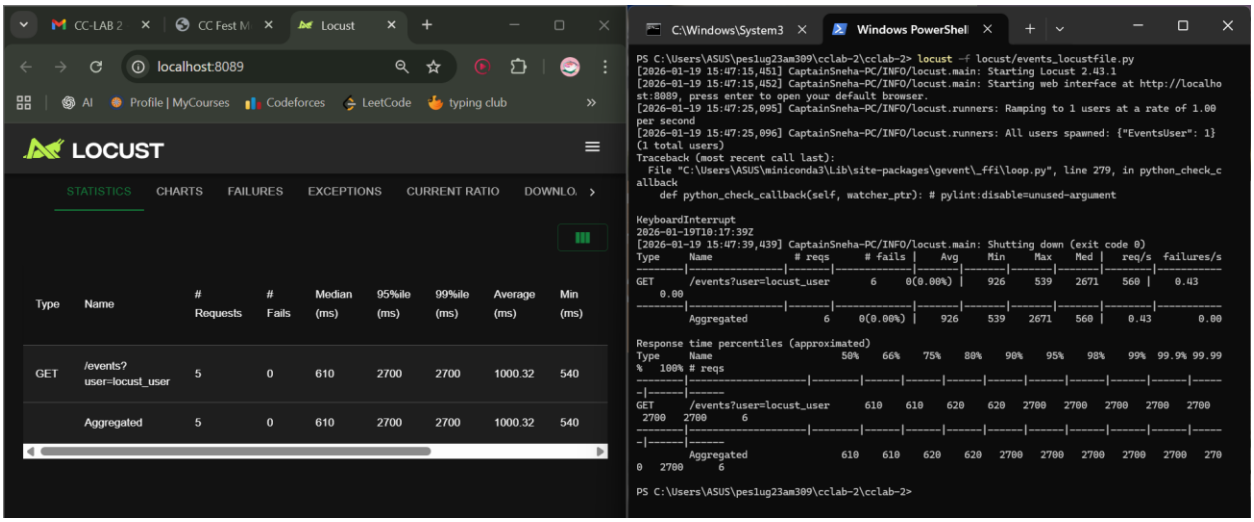
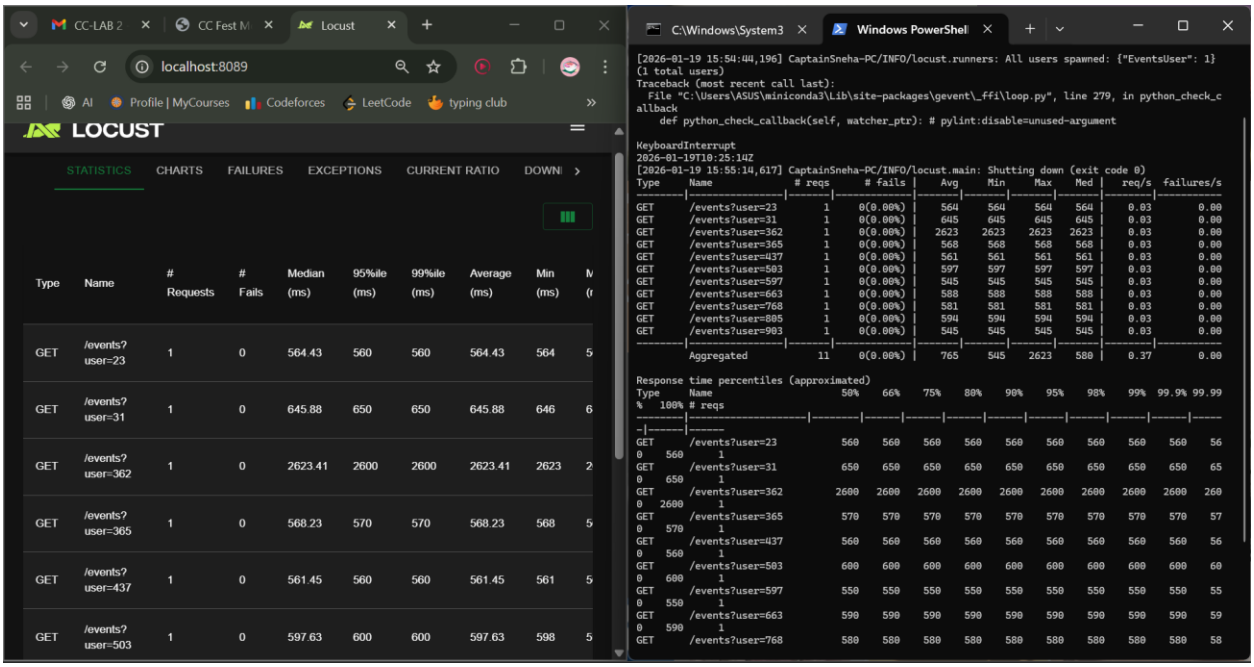
CURRENT RATIO
DOWNLO.
Type Name # Requests # Fails Median (ms) 95%ile (ms) 99%ile (ms) Average (ms) Min (ms) Max (ms)
GET //checkout 21 21 4 11 19 5.34 3 19
Aggregated 21 21 4 11 19 5.34 3 19
per second
[2026-01-19 15:14:09,269] CaptainSneha-PC/INFO/locust.runners: All users spawned: {"CheckoutUser": 1} (1 total users)
Traceback (most recent call last):
File "C:\Users\ASUS\miniconda3\Lib\site-packages\gevent_ffi\loop.py", line 279, in python_check_callback
def python_check_callback(self, watcher_ptr): # pylint:disable=unused-argument
KeyboardInterrupt
2026-01-19T09:45:34Z
[2026-01-19 15:15:34,090] CaptainSneha-PC/INFO/locust.main: Shutting down (exit code 1)
Type Name # reqs # fails | Avg Min Max Med | req/s failures/s
GET //checkout 21 21(100.00%) | 5 3 19 4 | 0.74 0.74
Aggregated 21 21(100.00%) | 5 3 19 4 | 0.74 0.74
Response time percentiles (approximated)
Type Name 50% 66% 75% 80% 90% 95% 98% 99% 99.9% 99.99% 100% # reqs
GET //checkout 4 5 5 5 9 11 19 19 19 19 19 21
Aggregated 4 5 5 5 9 11 19 19 19 19 19 21
Error report
occurrences Error
21 GET //checkout: HTTPError('404 Client Error: NOT FOUND for url: //checkout')
PS C:\Users\ASUS\pes1ug23am309\cclab-2\cclab-2>

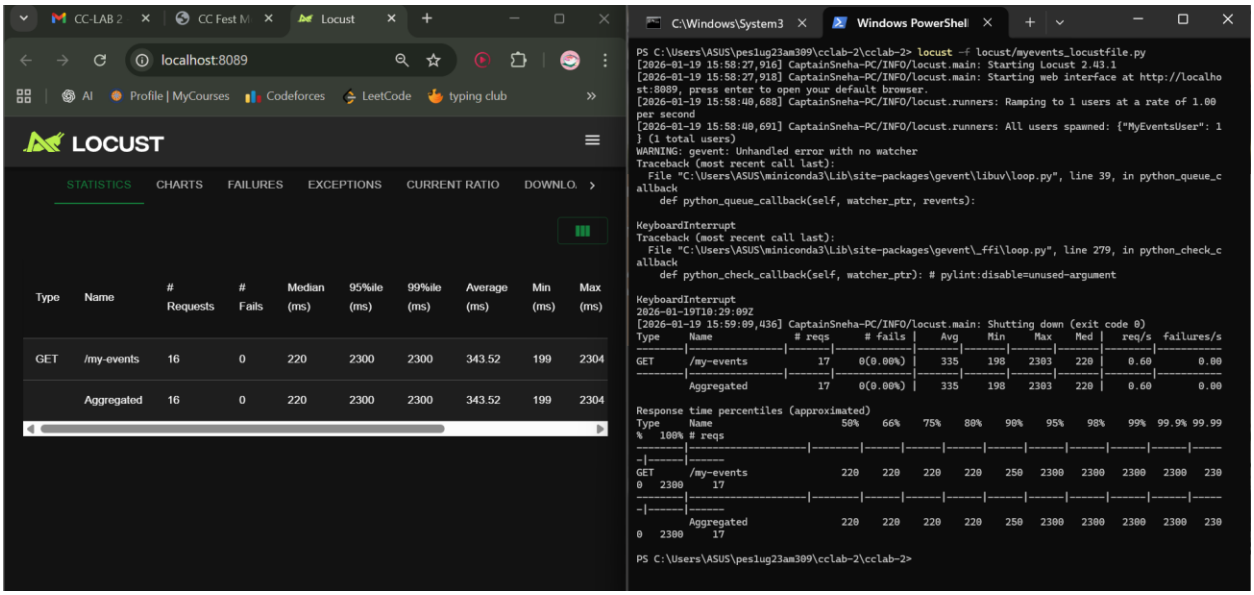

LOCUST
STATISTICS
CHARTS
FAILURES
EXCEPTIONS
CURRENT RATIO
DOWNLO.
Type Name # Requests # Fails Median (ms) 95%ile (ms) 99%ile (ms) Average (ms) Min (ms)
GET /events?user=locust_user 9 2 530 4600 4600 1780.15 526
Aggregated 9 2 530 4600 4600 1780.15 526
ABOUT
st:8089, press enter to open your default browser.
[2026-01-19 15:37:34,803] CaptainSneha-PC/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2026-01-19 15:37:34,806] CaptainSneha-PC/INFO/locust.runners: All users spawned: {"EventsUser": 1} (1 total users)
Traceback (most recent call last):
File "C:\Users\ASUS\miniconda3\Lib\site-packages\gevent_ffi\loop.py", line 279, in python_check_callback
def python_check_callback(self, watcher_ptr): # pylint:disable=unused-argument
KeyboardInterrupt
2026-01-19T10:08:09Z
[2026-01-19 15:38:09,495] CaptainSneha-PC/INFO/locust.main: Shutting down (exit code 1)
Type Name # reqs # fails | Avg Min Max Med | req/s failures/s
GET /events?user=locust_user 10 3(30.00%) | 2010 525 4646 530 | 0.29 0.09
Aggregated 10 3(30.00%) | 2010 525 4646 530 | 0.29 0.09
Response time percentiles (approximated)
Type Name 50% 66% 75% 80% 90% 95% 98% 99% 99.9% 99.99% 100% # reqs
GET /events?user=locust_user 570 4100 4100 4100 4600 4600 4600 4600 4600 4600 4600 10
Aggregated 570 4100 4100 4100 4600 4600 4600 4600 4600 4600 4600 10
Error report
occurrences Error
3 GET /events?user=locust_user: ConnectionRefusedError(10061, '[WinError 10061] No connection could be made because the target machine actively refused it.')
PS C:\Users\ASUS\pes1ug23am309\cclab-2\cclab-2>

Events:





MyEvent:


CC-LAB 2
CC Fest M
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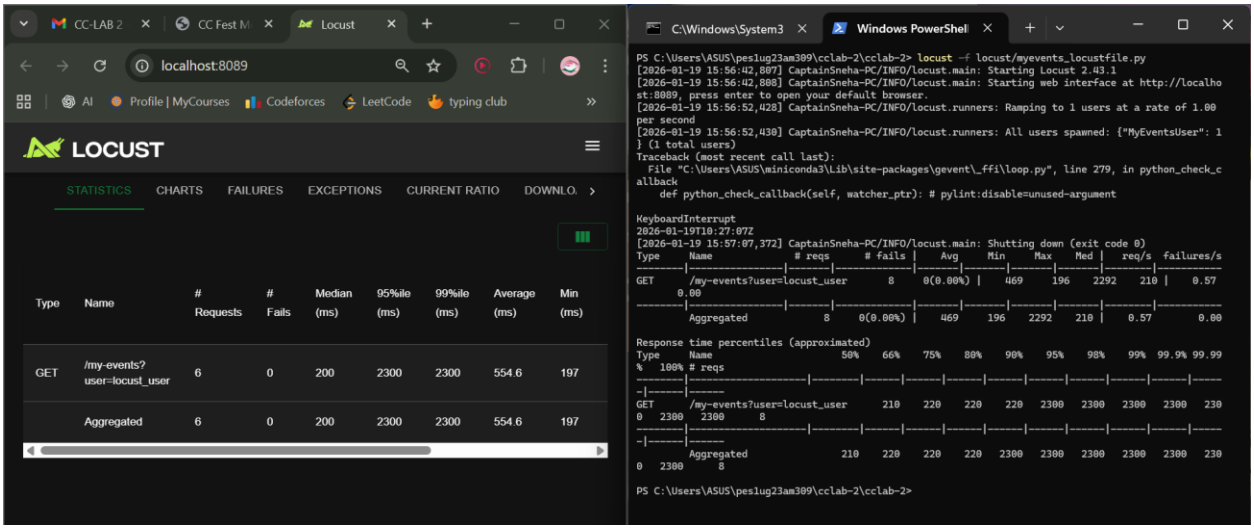
Average (ms)
Min (ms)
Max (ms)
GET
/my-events
16
0
220
2300
2300
343.52
199
2304
Aggregated
16
0
220
2300
2300
343.52
199
2304
C:\Windows\System3
Windows PowerShel
PS C:\Users\ASUS\pes1ug23am309\cclab-2\cclab-2> locust -f locust/myevents_locustfile.py
[2026-01-19 15:58:27,916] CaptainSneha-PC/INFO/locust.main: Starting Locust 2.43.1
[2026-01-19 15:58:27,918] CaptainSneha-PC/INFO/locust.main: Starting web interface at http://localhost:8089, press enter to open your default browser.
[2026-01-19 15:58:40,688] CaptainSneha-PC/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2026-01-19 15:58:40,691] CaptainSneha-PC/INFO/locust.runners: All users spawned: {"MyEventsUser": 1} (1 total users)
WARNING: gevent: Unhandled error with no watcher
Traceback (most recent call last):
File "C:\Users\ASUS\miniconda3\Lib\site-packages\gevent\libuv\loop.py", line 39, in python_queue_callback
def python_queue_callback(self, watcher_ptr, revents):
KeyboardInterrupt
Traceback (most recent call last):
File "C:\Users\ASUS\miniconda3\Lib\site-packages\gevent_ffi\loop.py", line 279, in python_check_callback
def python_check_callback(self, watcher_ptr): # pylint:disable=unused-argument
KeyboardInterrupt
2026-01-19T10:29:09Z
[2026-01-19 15:59:09,436] CaptainSneha-PC/INFO/locust.main: Shutting down (exit code 0)
Type Name # reqs # fails | Avg Min Max Med | req/s failures/s
GET /my-events 17 0(0.00%) | 335 198 2303 220 | 0.60 0.00
Aggregated 17 0(0.00%) | 335 198 2303 220 | 0.60 0.00
Response time percentiles (approximated)
Type Name 50% 66% 75% 80% 90% 95% 98% 99% 99.9% 99.99% 100% # reqs
GET /my-events 220 220 220 220 250 2300 2300 2300 2300 2300 17
Aggregated 220 220 220 220 250 2300 2300 2300 2300 2300 17
PS C:\Users\ASUS\pes1ug23am309\cclab-2\cclab-2>


CC-LAB 2
CC Fest M
Locust
localhost:8089
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Profile | MyCourses
Codeforces
LeetCode
typing club
LOCUST
STATISTICS
CHARTS
FAILURES
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CURRENT RATIO
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Type
Name
Requests
Fails
Median (ms)
95%ile (ms)
99%ile (ms)
Average (ms)
Min (ms)
GET
/my-events?user=locust_user
6
0
200
2300
2300
554.6
197
Aggregated
6
0
200
2300
2300
554.6
197
C:\Windows\System3
Windows PowerShel
PS C:\Users\ASUS\pes1ug23am309\cclab-2\cclab-2> locust -f locust/myevents_locustfile.py
[2026-01-19 15:56:42,807] CaptainSneha-PC/INFO/locust.main: Starting Locust 2.43.1
[2026-01-19 15:56:42,808] CaptainSneha-PC/INFO/locust.main: Starting web interface at http://localhost:8089, press enter to open your default browser.
[2026-01-19 15:56:52,428] CaptainSneha-PC/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2026-01-19 15:56:52,430] CaptainSneha-PC/INFO/locust.runners: All users spawned: {"MyEventsUser": 1} (1 total users)
Traceback (most recent call last):
File "C:\Users\ASUS\miniconda3\Lib\site-packages\gevent_ffi\loop.py", line 279, in python_check_callback
def python_check_callback(self, watcher_ptr): # pylint:disable=unused-argument
KeyboardInterrupt
2026-01-19T10:27:07Z
[2026-01-19 15:57:07,372] CaptainSneha-PC/INFO/locust.main: Shutting down (exit code 0)
Type Name # reqs # fails | Avg Min Max Med | req/s failures/s
GET /my-events?user=locust_user 8 0(0.00%) | 469 196 2292 210 | 0.57 0.00
Aggregated 8 0(0.00%) | 469 196 2292 210 | 0.57 0.00
Response time percentiles (approximated)
Type Name 50% 66% 75% 80% 90% 95% 98% 99% 99.9% 99.99% 100% # reqs
GET /my-events?user=locust_user 210 220 220 220 2300 2300 2300 2300 2300 2300 8
Aggregated 210 220 220 220 2300 2300 2300 2300 2300 2300 8
PS C:\Users\ASUS\pes1ug23am309\cclab-2\cclab-2>