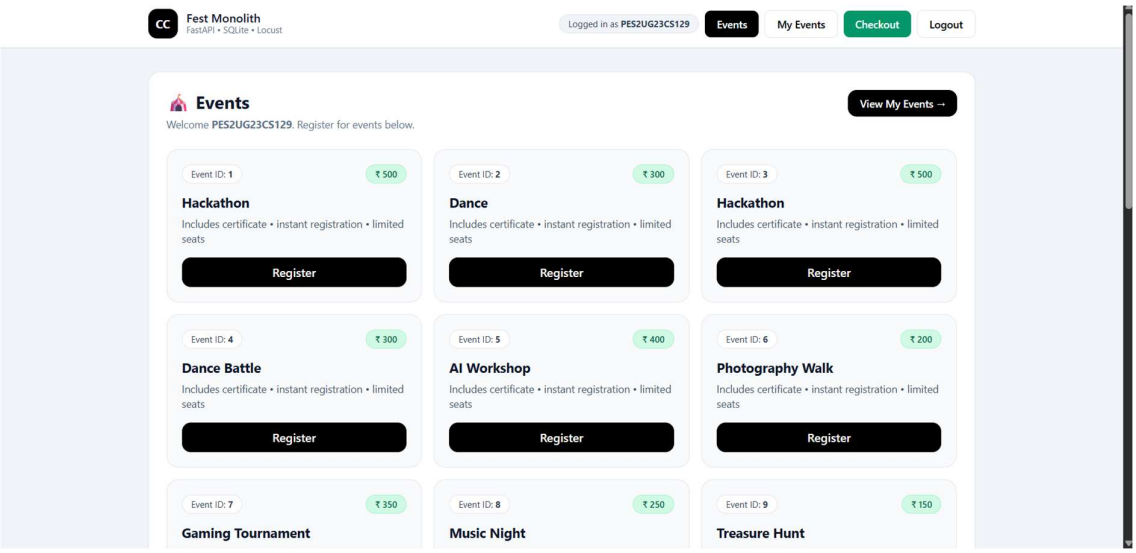
Cc lab 2

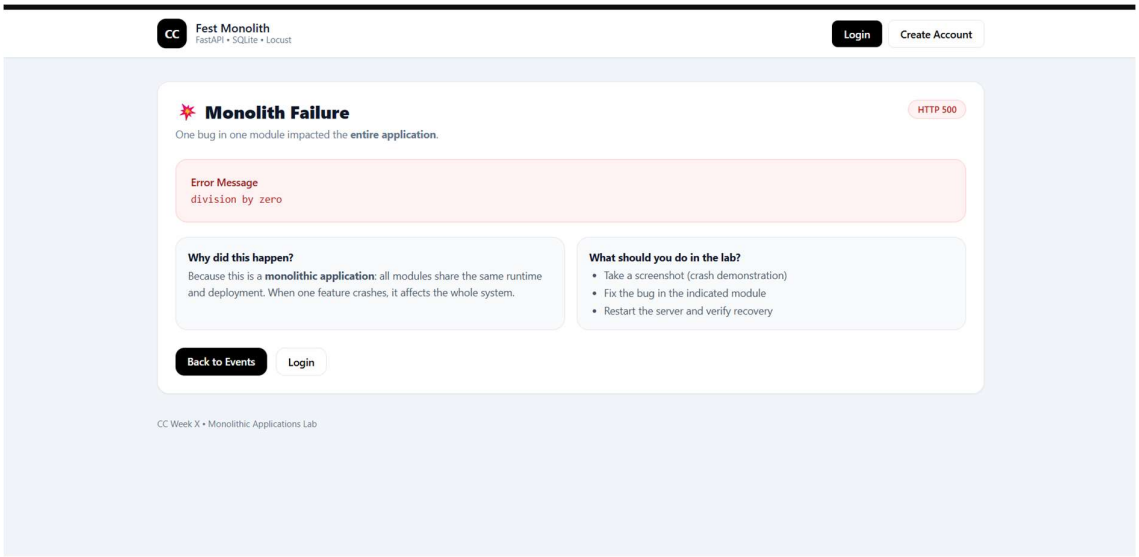
Name – bhuvan hebbar

Srn – pes2ug23cs129

SS1

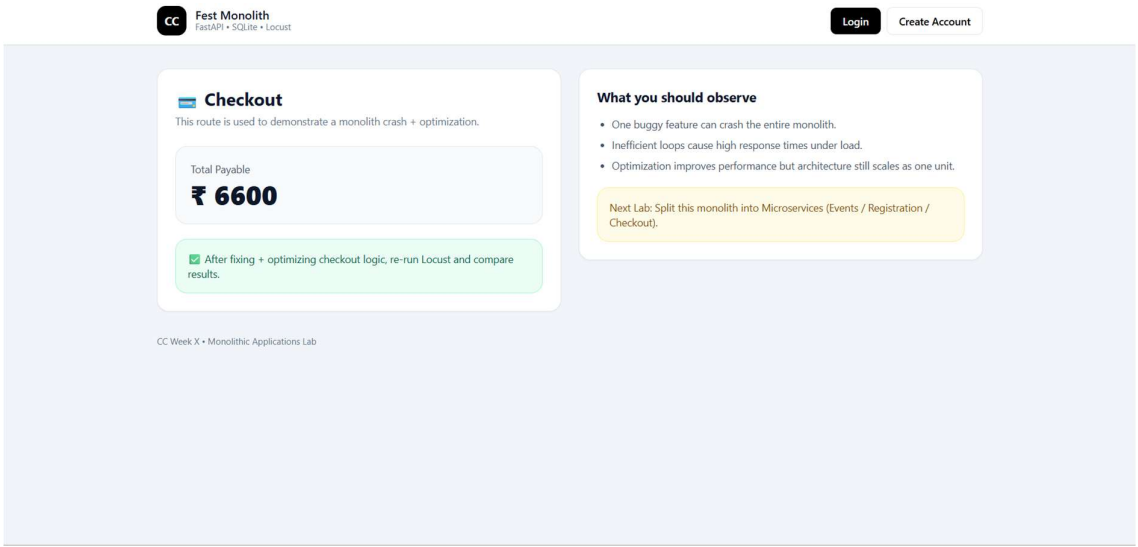


SS2



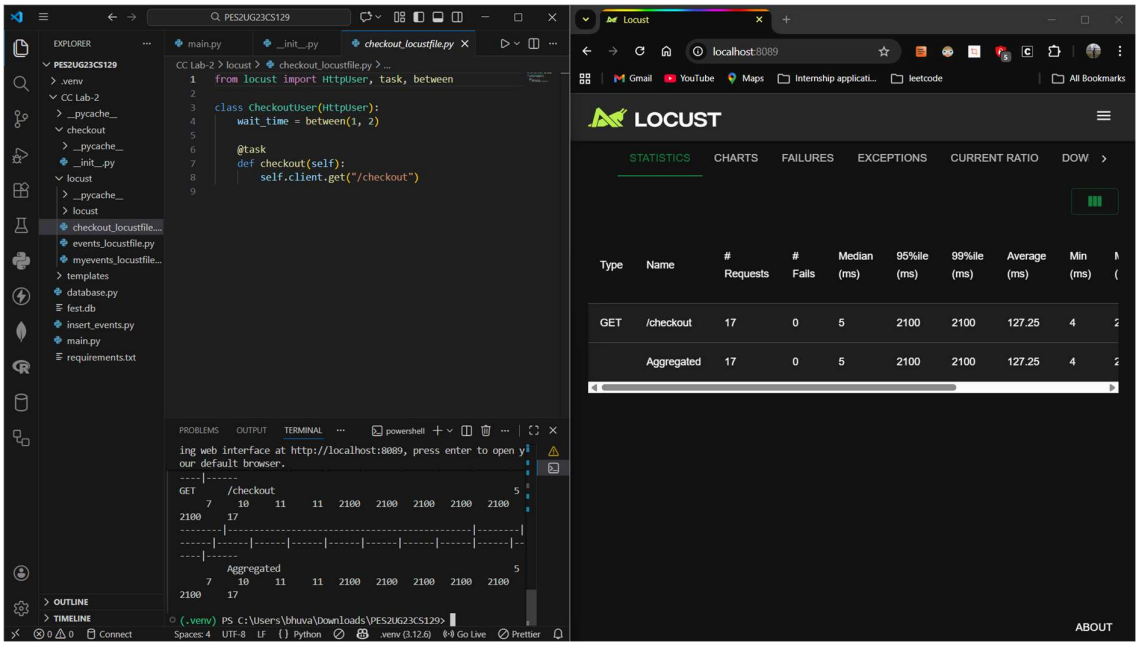
```
INFO:     Started server process [2444]
INFO:     Waiting for application startup.
INFO:     Application startup complete.
INFO:     127.0.0.1:58039 - "GET /checkout HTTP/1.1" 500 Internal Server Error
ERROR:    Exception in ASGI application
Traceback (most recent call last):
```

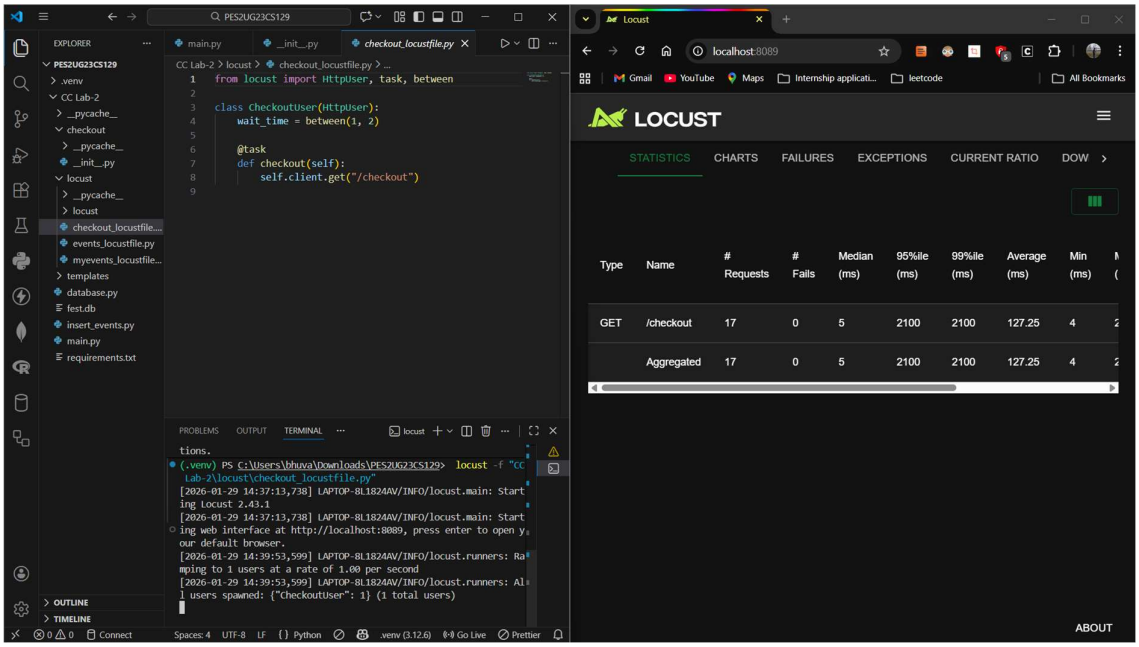
SS3



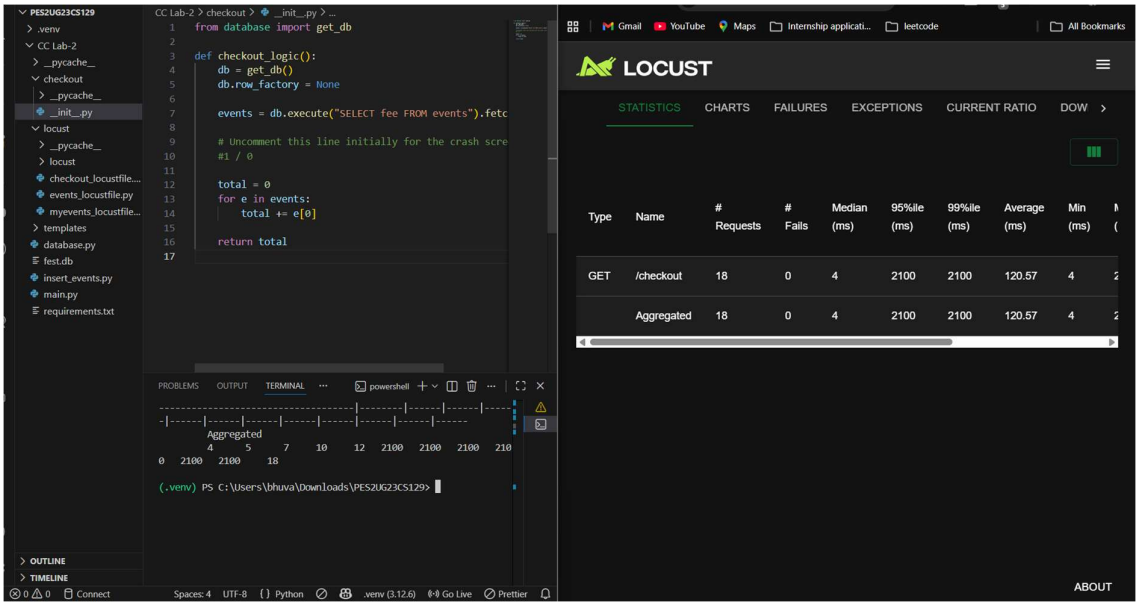

```
INFO:     Waiting for application startup.
INFO:     Application startup complete.
INFO:     127.0.0.1:49693 - "GET /checkout HTTP/1.1" 200 OK
```

SS4

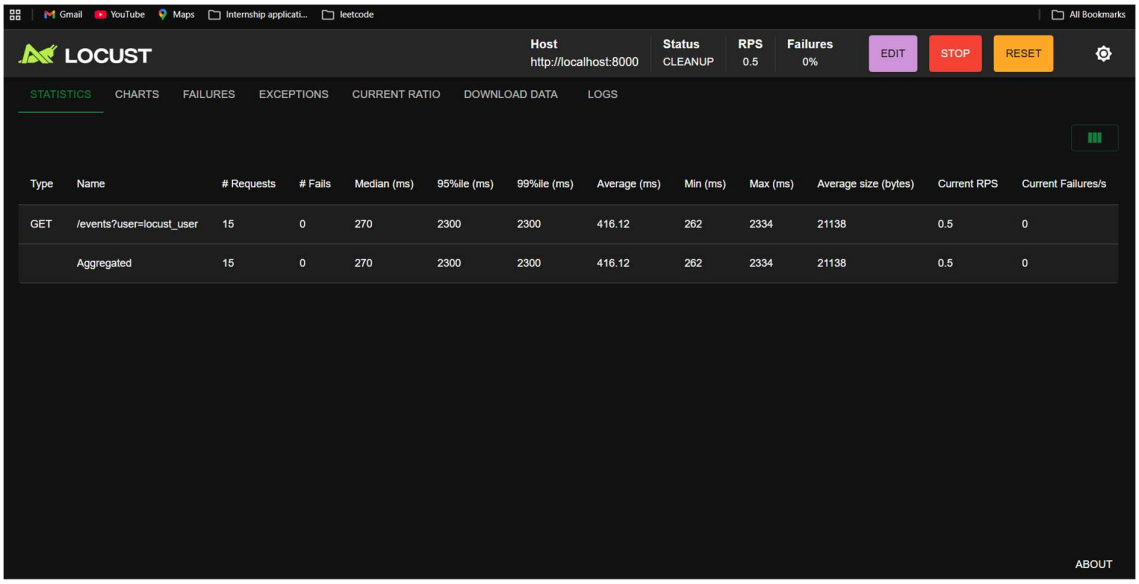

PES2UG23CS129
EXPLORER
PES2UG23CS129
.venv
CC Lab-2
__pycache__
checkout
__pycache__
__init__.py
locust
__pycache__
locust
checkout_locustfile...
events_locustfile.py
myevents_locustfile...
templates
database.py
fest.db
insert_events.py
main.py
requirements.txt
main.py
__init__.py
checkout_locustfile.py
CC Lab-2 > locust > checkout_locustfile.py > ...
1 from locust import HttpUser, task, between
2
3 class CheckoutUser(HttpUser):
4 wait_time = between(1, 2)
5
6 @task
7 def checkout(self):
8 self.client.get("/checkout")
9
PROBLEMS OUTPUT TERMINAL
powershell
ing web interface at http://localhost:8089, press enter to open y
our default browser.
GET /checkout 5
7 10 11 11 2100 2100 2100 2100 2100
2100 17
Aggregated 5
7 10 11 11 2100 2100 2100 2100 2100
2100 17
(.venv) PS C:\Users\bhuva\Downloads\PES2UG23CS129>
OUTLINE
TIMELINE
Connect
Spaces: 4 UTF-8 LF { } Python .venv (3.12.6) Go Live Prettier
Locust
localhost:8089
Gmail YouTube Maps Internship applicati... leetcode
All Bookmarks
LOCUST
STATISTICS CHARTS FAILURES EXCEPTIONS CURRENT RATIO DOW
Type Name # Requests # Fails Median (ms) 95%ile (ms) 99%ile (ms) Average (ms) Min (ms)
GET /checkout 17 0 5 2100 2100 127.25 4
Aggregated 17 0 5 2100 2100 127.25 4
ABOUT


PES2UG23CS129
EXPLORER
PES2UG23CS129
.venv
CC Lab-2
__pycache__
checkout
__pycache__
__init__.py
locust
__pycache__
locust
checkout_locustfile...
events_locustfile.py
myevents_locustfile...
templates
database.py
fest.db
insert_events.py
main.py
requirements.txt
main.py
__init__.py
checkout_locustfile.py
CC Lab-2 > locust > checkout_locustfile.py > ...
1 from locust import HttpUser, task, between
2
3 class CheckoutUser(HttpUser):
4 wait_time = between(1, 2)
5
6 @task
7 def checkout(self):
8 self.client.get("/checkout")
9
PROBLEMS OUTPUT TERMINAL
locust
tions.
(.venv) PS C:\Users\bhuva\Downloads\PES2UG23CS129> locust -f "CC
Lab-2\locust\checkout_locustfile.py"
[2026-01-29 14:37:13,738] LAPTOP-8L1824AV/INFO/locust.main: Start
ing Locust 2.43.1
[2026-01-29 14:37:13,738] LAPTOP-8L1824AV/INFO/locust.main: Start
ing web interface at http://localhost:8089, press enter to open y
our default browser.
[2026-01-29 14:39:53,599] LAPTOP-8L1824AV/INFO/locust.runners: Ra
mping to 1 users at a rate of 1.00 per second
[2026-01-29 14:39:53,599] LAPTOP-8L1824AV/INFO/locust.runners: Al
l users spawned: {"CheckoutUser": 1} (1 total users)
OUTLINE
TIMELINE
Connect
Spaces: 4 UTF-8 LF { } Python .venv (3.12.6) Go Live Prettier
Locust
localhost:8089
Gmail YouTube Maps Internship applicati... leetcode
All Bookmarks
LOCUST
STATISTICS CHARTS FAILURES EXCEPTIONS CURRENT RATIO DOW
Type Name # Requests # Fails Median (ms) 95%ile (ms) 99%ile (ms) Average (ms) Min (ms)
GET /checkout 17 0 5 2100 2100 127.25 4
Aggregated 17 0 5 2100 2100 127.25 4
ABOUT

SS5


PES2UG23CS129
.venv
CC Lab-2
__pycache__
checkout
__pycache__
__init__.py
locust
__pycache__
locust
checkout_locustfile....
events_locustfile.py
myevents_locustfile...
templates
database.py
fest.db
insert_events.py
main.py
requirements.txt
OUTLINE
TIMELINE
CC Lab-2 > checkout > __init__.py > ...
from database import get_db
def checkout_logic():
db = get_db()
db.row_factory = None
events = db.execute("SELECT fee FROM events").fetc
# Uncomment this line initially for the crash scre
#1 / 0
total = 0
for e in events:
total += e[0]
return total
PROBLEMS
OUTPUT
TERMINAL
powershell
Aggregated
4 5 7 10 12 2100 2100 2100 210
0 2100 2100 18
(.venv) PS C:\Users\bhuva\Downloads\PES2UG23CS129>
Spaces: 4
UTF-8
Python
.venv (3.12.6)
Go Live
Prettier
Gmail
YouTube
Maps
Internship applicati...
leetcode
All Bookmarks
LOCUST
STATISTICS
CHARTS
FAILURES
EXCEPTIONS
CURRENT RATIO
DOW
Type
Name
Requests
Fails
Median (ms)
95%ile (ms)
99%ile (ms)
Average (ms)
Min (ms)
GET
/checkout
18
0
4
2100
2100
120.57
4
Aggregated
18
0
4
2100
2100
120.57
4
ABOUT

SS6

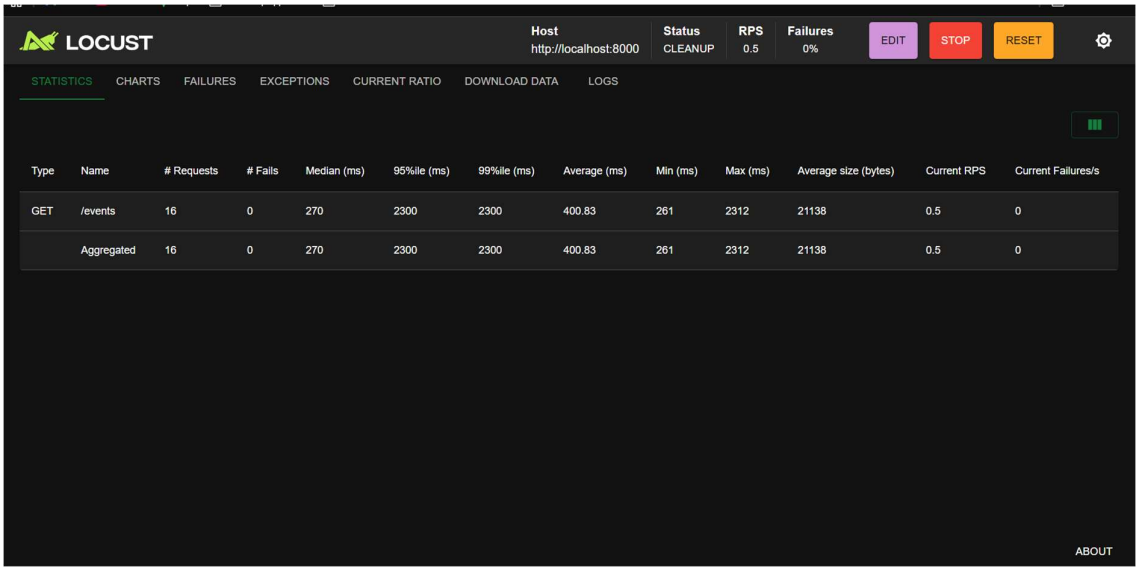

Gmail
YouTube
Maps
Internship applicati...
leetcode
All Bookmarks
LOCUST
Host
http://localhost:8000
Status
CLEANUP
RPS
0.5
Failures
0%
EDIT
STOP
RESET
STATISTICS
CHARTS
FAILURES
EXCEPTIONS
CURRENT RATIO
DOWNLOAD DATA
LOGS
Type
Name
Requests
Fails
Median (ms)
95%ile (ms)
99%ile (ms)
Average (ms)
Min (ms)
Max (ms)
Average size (bytes)
Current RPS
Current Failures/s
GET
/events?user=locust_user
15
0
270
2300
2300
416.12
262
2334
21138
0.5
0
Aggregated
15
0
270
2300
2300
416.12
262
2334
21138
0.5
0
ABOUT

```
KeyboardInterrupt
2026-01-29T09:29:59Z
[2026-01-29 14:59:59,311] LAPTOP-8L1824AV/INFO/locust.main: Shutting down (exit code 0)
Type     Name                                                                          # reqs      # fails |    Avg     Min     Max    Me
d |   req/s  failures/s
--------|-----------------------------------------------------------------------------|-------|-------------|-------|-------|-------|-----
--|--------|-----------
GET      /events?user=locust_user                                                        11     0(0.00%) |    454     257    2321    27
0 |    0.50        0.00
--------|-----------------------------------------------------------------------------|-------|-------------|-------|-------|-------|-----
--|--------|-----------
         Aggregated                                                                      11     0(0.00%) |    454     257    2321    27
0 |    0.50        0.00

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                                                            270    270    280    280    280   2300   2
300   2300   2300   2300   2300     11
--------|-----------------------------------------------------------------------------|--------|------|------|------|------|------|---
---|------|------|------|------|------
         Aggregated                                                                          270    270    280    280    280   2300   2
300   2300   2300   2300   2300     11

(.venv) PS C:\Users\bhuva\Downloads\PES2UG23CS129>  locust -f "CC Lab-2\locust\events_locustfile.py"
```

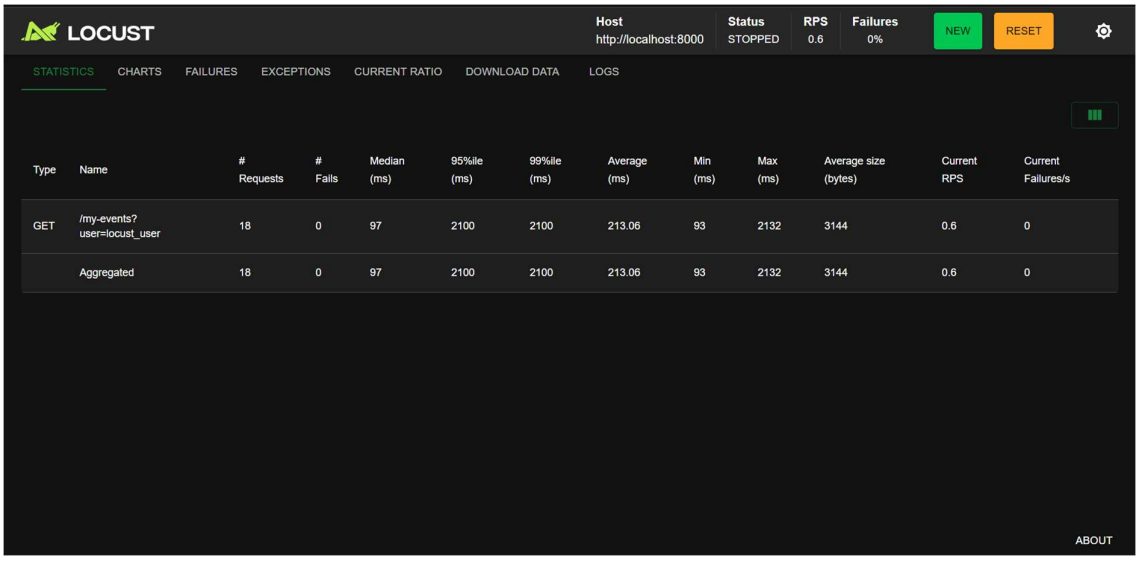
SS7



```
KeyboardInterrupt
2026-01-29T09:31:28Z
[2026-01-29 15:01:28,748] LAPTOP-8L1824AV/INFO/locust.main: Shutting down (exit code 0)
Type     Name                                                          # reqs      # fails |    Avg     Min     Max    Med |   req/s  failures/s
--------|-------------------------------------------------------------|-------|-------------|-------|-------|-------|-------|--------|-----------
GET      /events                                                         16     0(0.00%) |    400     260    2312    270 |    0.54        0.00
--------|-------------------------------------------------------------|-------|-------------|-------|-------|-------|-------|--------|-----------
         Aggregated                                                      16     0(0.00%) |    400     260    2312    270 |    0.54        0.00

Response time percentiles (approximated)
Type     Name                                                                50%    66%    75%    80%    90%    95%    98%    99%  99.9% 99.99
%   100% # reqs
--------|-------------------------------------------------------------|--------|------|------|------|------|------|------|------|------|-----
-|------|------
GET      /events                                                           270    280    280    280    290   2300   2300   2300   2300   230
0   2300     16
--------|-------------------------------------------------------------|--------|------|------|------|------|------|------|------|------|-----
-|------|------
         Aggregated                                                        270    280    280    280    290   2300   2300   2300   2300   230
0   2300     16
```

SS8

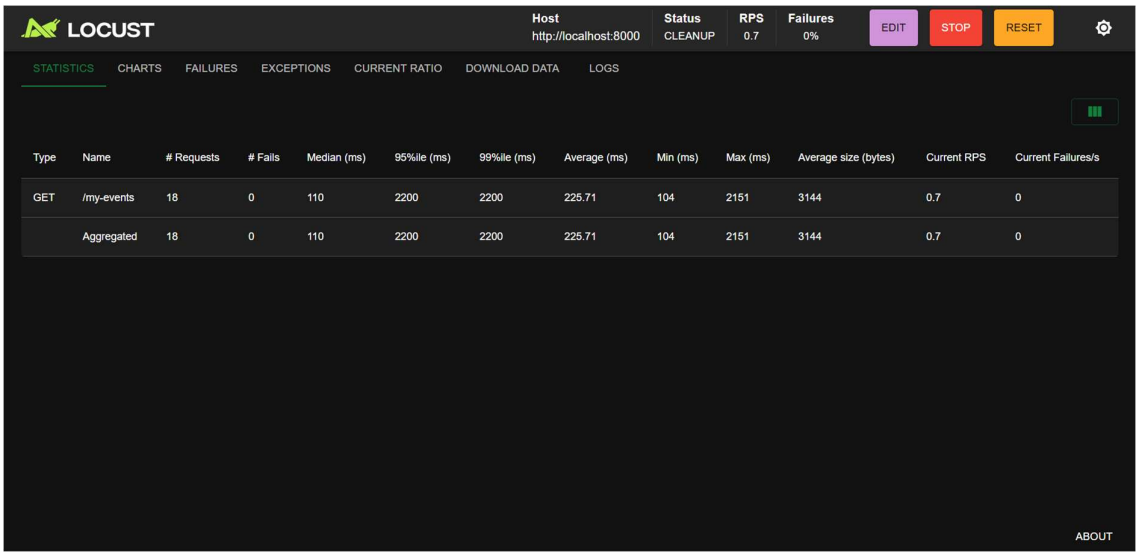


```
Type     Name                                                          # reqs      # fails |    Avg     Min     Max    Med |   req/s  failures/s
--------|-------------------------------------------------------------|-------|-------------|-------|-------|-------|-------|--------|-----------
GET      /my-events                                                       17     0(0.00%) |    226      92    2182     97 |    0.56        0.00
--------|-------------------------------------------------------------|-------|-------------|-------|-------|-------|-------|--------|-----------
         Aggregated                                                       17     0(0.00%) |    226      92    2182     97 |    0.56        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                                                          97     98    100    100    190   2200   2200   2200   2200   220
0   2200     17
--------|-------------------------------------------------------------|--------|------|------|------|------|------|------|------|------|-----
-|------|------
         Aggregated                                                          97     98    100    100    190   2200   2200   2200   2200   220
0   2200     17

(.venv) PS C:\Users\bhuva\Downloads\PES2UG23CS129>  locust -f "CC Lab-2\locust\myevents_locustfile.py"
```

SS9




```
Type     Name                                                          # reqs      # fails |    Avg     Min     Max    Med |   req/s  failures/s
--------|-------------------------------------------------------------|-------|-------------|-------|-------|-------|-------|--------|-----------
GET      /my-events?user=locust_user                                      18     0(0.00%) |    213      93    2132     97 |    0.63        0.00
--------|-------------------------------------------------------------|-------|-------------|-------|-------|-------|-------|--------|-----------
         Aggregated                                                       18     0(0.00%) |    213      93    2132     97 |    0.63        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                                         97     99    110    110    110   2100   2100   2100   2100   210
0   2100     18
--------|-------------------------------------------------------------|--------|------|------|------|------|------|------|------|------|-----
-|------|------
         Aggregated                                                          97     99    110    110    110   2100   2100   2100   2100   210
0   2100     18

(.venv) PS C:\Users\bhuva\Downloads\PES2UG23CS129>  locust -f "CC Lab-2\locust\myevents_locustfile.py"
```

Route: /events
Bottleneck:
Failures were not properly captured, which resulted in misleading success metrics and made it harder to understand how the system behaved under load.

Change Made:
Enabled catch_response=True and added status code checks to explicitly mark failed requests. Also grouped requests to organize the metrics better.

Why Performance Improved:
By correctly identifying failures and grouping requests, the test results became more accurate and easier to interpret, allowing better analysis of response times and system behavior.

Route: /my-events

Bottleneck:
The route did not explicitly verify responses, which could allow failed requests to go unnoticed and produce inaccurate performance statistics when multiple users accessed the system simultaneously.

Change Made:
Enabled catch_response=True and added structured request naming to properly capture failures and organize performance data.

Why Performance Improved:
With clear failure detection and better-organized metrics, the system's behavior became easier to analyze, leading to more reliable and accurate performance evaluation.