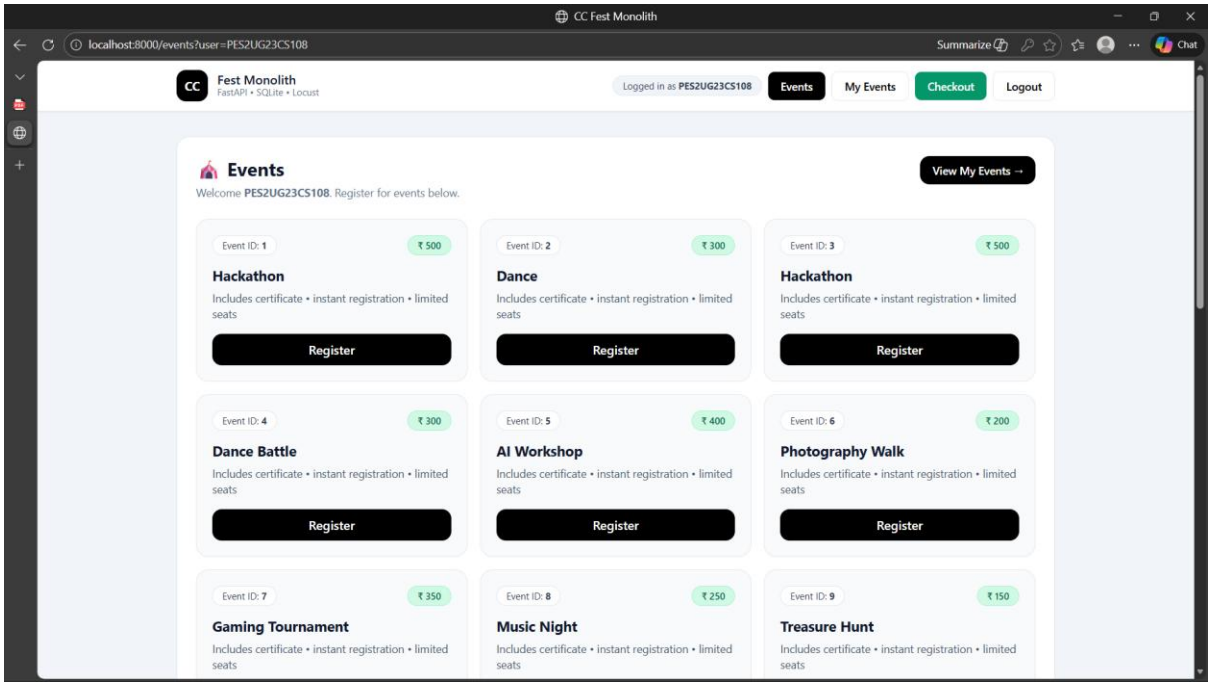
CC LAB 2

NAME: AVANEE UPADHYAYA

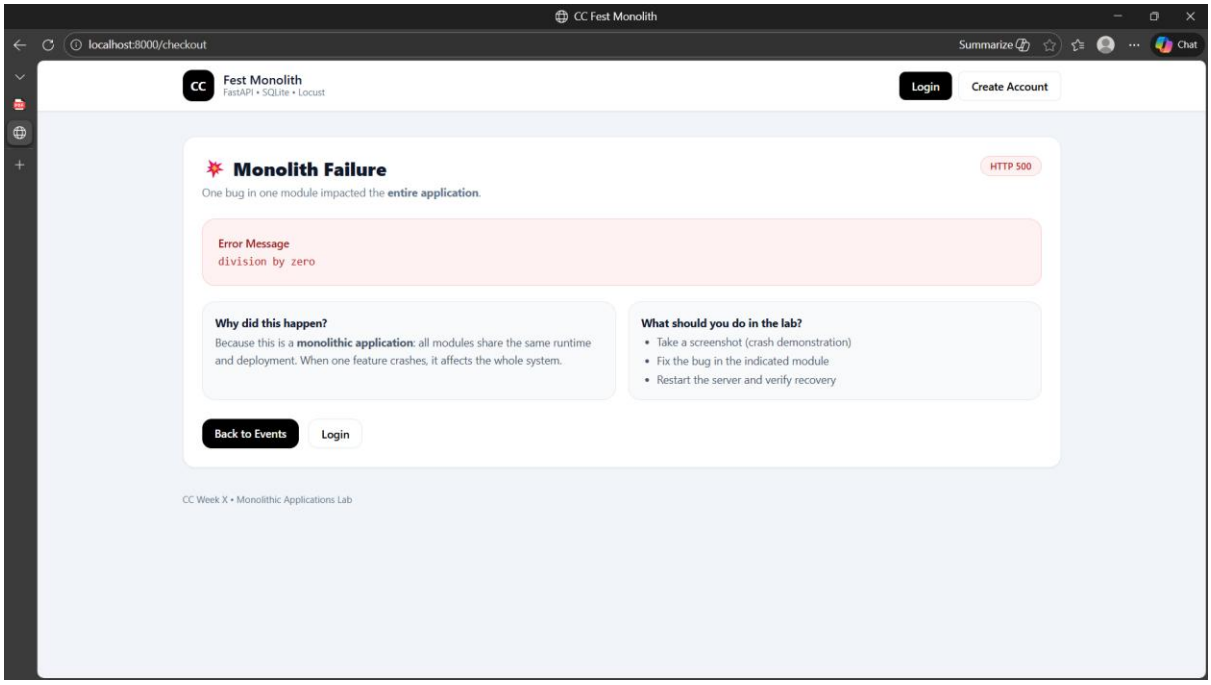
SRN: PES2UG23CS108

SECTION: B

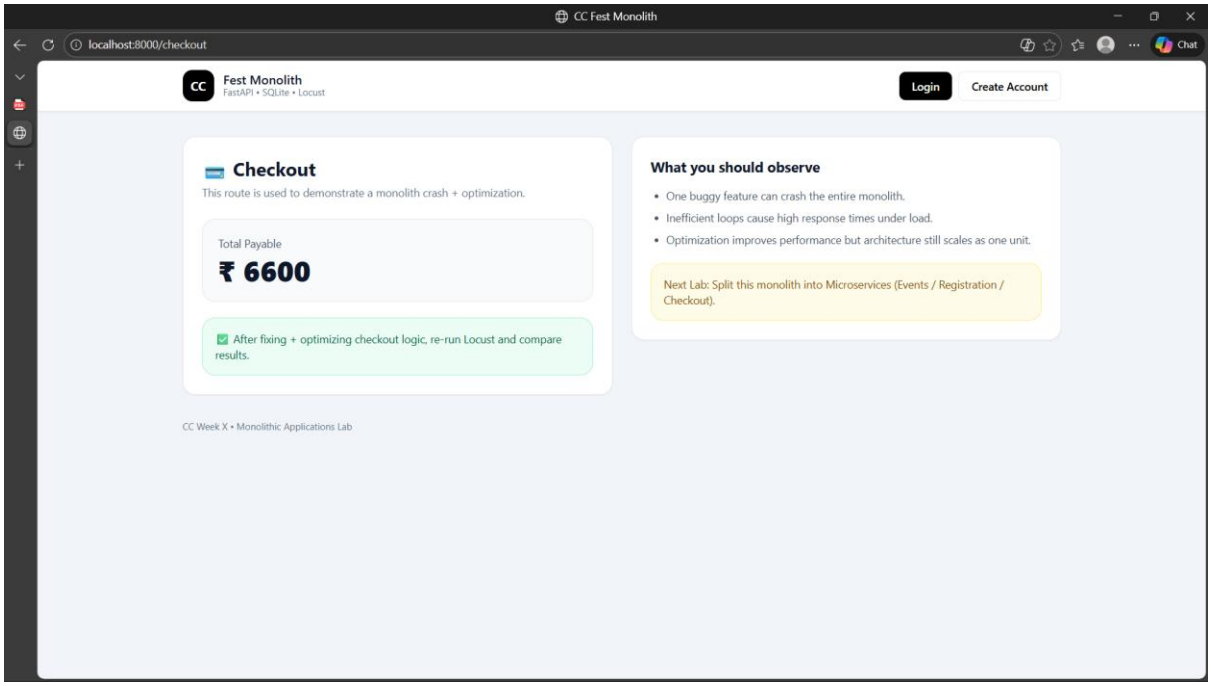
SS1:



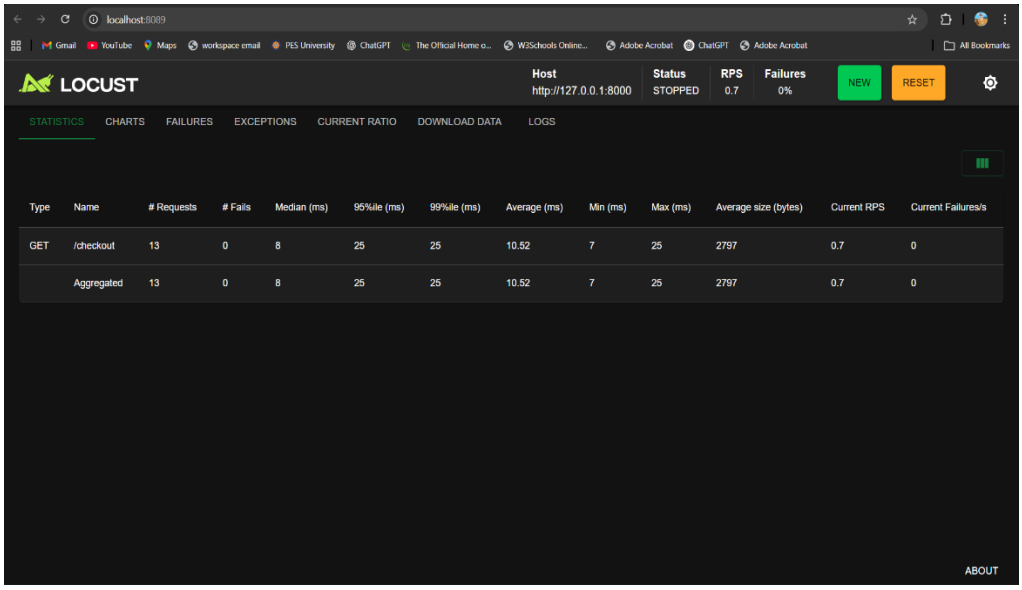
SS2:



SS3:



SS4:



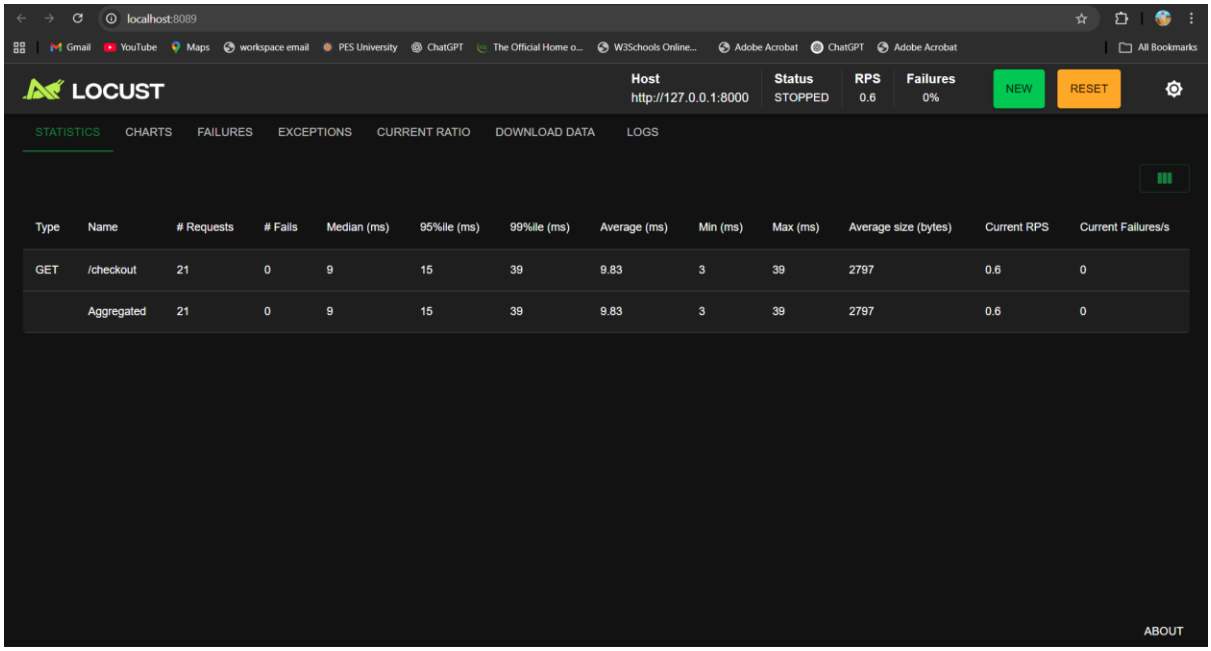

```
[2026-01-29 14:44:02,018] Avanee/INFO/locust.runners: All users spawned: {"CheckoutUser": 1} (1 total users)
Traceback (most recent call last):
  File "C:\Users\avane\AppData\Local\Programs\Python\Python313\Lib\site-packages\gevent\_ffi\loop.py", line 279, in python_check_callback
    def python_check_callback(self, watcher_ptr): # pylint:disable=unused-argument

KeyboardInterrupt
2026-01-29T09:14:53Z
[2026-01-29 14:44:53,617] Avanee/INFO/locust.main: Shutting down (exit code 0)
Type     Name                                                                          # reqs      # fails |    Avg     Min     Max    Med |   req/s  failures/s
--------|----------------------------------------------------------------------------|-------|-------------|-------|-------|-------|-------|--------|-----------
GET      /checkout                                                                        13     0(0.00%) |     10       7      24      8 |    0.74        0.00
--------|----------------------------------------------------------------------------|-------|-------------|-------|-------|-------|-------|--------|-----------
         Aggregated                                                                       13     0(0.00%) |     10       7      24      8 |    0.74        0.00

Response time percentiles (approximated)
Type     Name                                                                             50%    66%    75%    80%    90%    95%    98%    99%  99.9% 99.99%   100% # reqs
--------|----------------------------------------------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------
GET      /checkout                                                                          8      9      9     13     16     25     25     25     25     25     25     13
--------|----------------------------------------------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------
         Aggregated                                                                         8      9      9     13     16     25     25     25     25     25     25     13


C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>
C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>
```

SS5:



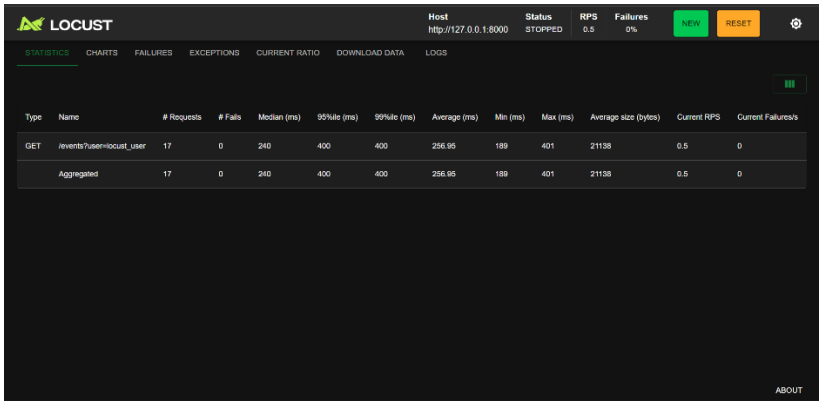

```
C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>
C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>python -m locust -f checkout_locustfile.py
[2026-01-29 14:46:47,685] Avanee/INFO/locust.main: Starting Locust 2.43.1
[2026-01-29 14:46:47,685] Avanee/INFO/locust.main: Starting web interface at http://localhost:8089, press enter to open your default browser.
[2026-01-29 14:47:07,364] Avanee/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2026-01-29 14:47:07,368] Avanee/INFO/locust.runners: All users spawned: {"CheckoutUser": 1} (1 total users)
Traceback (most recent call last):
  File "C:\Users\avane\AppData\Local\Programs\Python\Python313\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
2026-01-29T09:18:18Z
[2026-01-29 14:48:18,897] Avanee/INFO/locust.main: Shutting down (exit code 0)
Type     Name                                                                          # reqs      # fails |    Avg     Min     Max    Med |   req/s  failures/s
--------|----------------------------------------------------------------------------|-------|-------------|-------|-------|-------|-------|--------|-----------
GET      /checkout                                                                        21     0(0.00%) |      9       2      39      9 |    0.70        0.00
--------|----------------------------------------------------------------------------|-------|-------------|-------|-------|-------|-------|--------|-----------
         Aggregated                                                                       21     0(0.00%) |      9       2      39      9 |    0.70        0.00

Response time percentiles (approximated)
Type     Name                                                                             50%    66%    75%    80%    90%    95%    98%    99%  99.9% 99.99%   100% # reqs
--------|----------------------------------------------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------
GET      /checkout                                                                          9     10     11     11     12     15     39     39     39     39     39     21
--------|----------------------------------------------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------
         Aggregated                                                                         9     10     11     11     12     15     39     39     39     39     39     21


C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>
C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>
```

SS6:



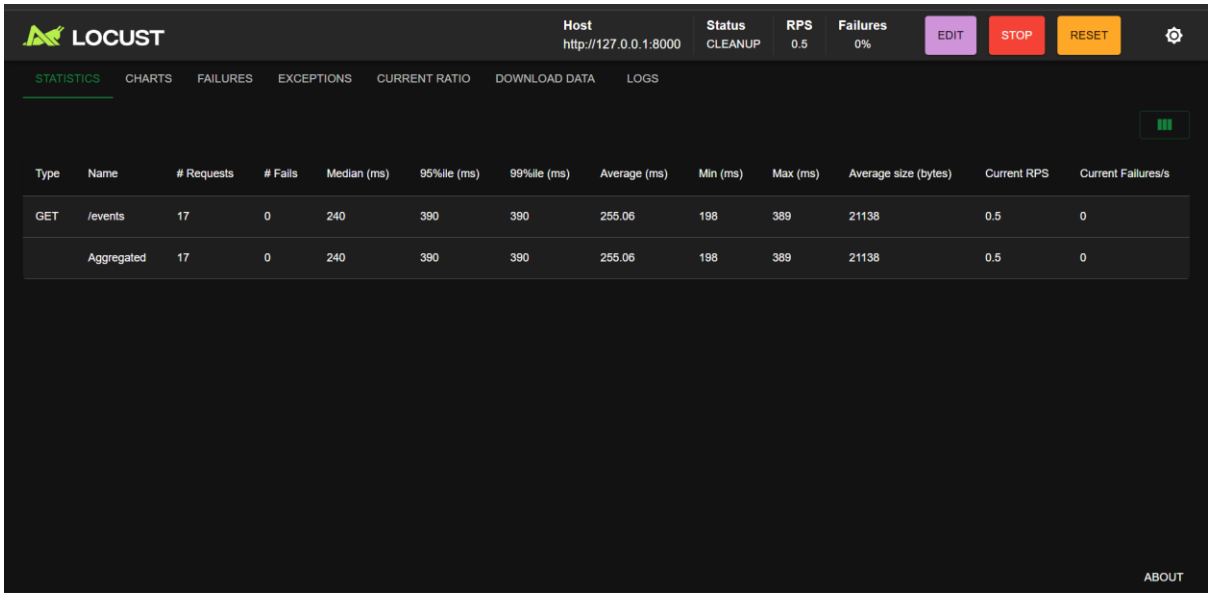

```
C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>
C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>python -m locust -f events_locustfile.py
[2026-01-29 14:50:07,017] Avanee/INFO/locust.main: Starting Locust 2.43.1
[2026-01-29 14:50:07,018] Avanee/INFO/locust.main: Starting web interface at http://localhost:8089, press enter to open your default browser.
[2026-01-29 14:50:54,464] Avanee/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2026-01-29 14:50:54,467] Avanee/INFO/locust.runners: All users spawned: {"EventsUser": 1} (1 total users)
Traceback (most recent call last):
  File "C:\Users\avane\AppData\Local\Programs\Python\Python313\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
2026-01-29T09:35:05Z
[2026-01-29 15:05:05,127] Avanee/INFO/locust.main: Shutting down (exit code 0)
Type     Name                                                                          # reqs      # fails |    Avg     Min     Max    Med |   req/s  failures/s
--------|----------------------------------------------------------------------------|-------|-------------|-------|-------|-------|-------|--------|-----------
GET      /events?user=locust_user                                                         17     0(0.00%) |    256     188     400    240 |    0.57        0.00
         Aggregated                                                                       17     0(0.00%) |    256     188     400    240 |    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      /events?user=locust_user                                                        240    260    280    290    350    400    400    400    400    400    400     17
         Aggregated                                                                      240    260    280    290    350    400    400    400    400    400    400     17


C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>
C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>
```

SS7:



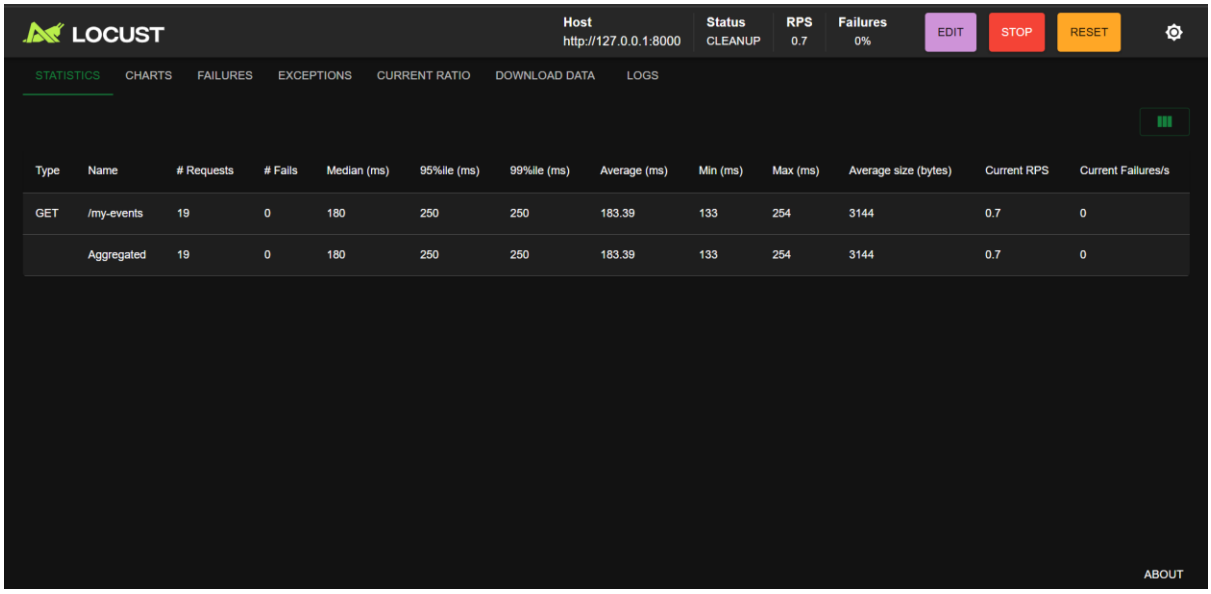

```
C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>
C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>python -m locust -f events_locustfile.py
[2026-01-29 15:28:52,694] Avanee/INFO/locust.main: Starting Locust 2.43.1
[2026-01-29 15:28:52,697] Avanee/INFO/locust.main: Starting web interface at http://localhost:8089, press enter to open your default browser.
[2026-01-29 15:29:03,236] Avanee/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2026-01-29 15:29:03,238] Avanee/INFO/locust.runners: All users spawned: {"EventsUser": 1} (1 total users)
Traceback (most recent call last):
  File "C:\Users\avane\AppData\Local\Programs\Python\Python313\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
2026-01-29T10:00:17Z
[2026-01-29 15:30:17,038] Avanee/INFO/locust.main: Shutting down (exit code 0)
Type     Name                                                                          # reqs      # fails |    Avg     Min     Max    Med |   req/s  failures/s
--------|----------------------------------------------------------------------------|-------|-------------|-------|-------|-------|-------|--------|-----------
GET      /events                                                                          17     0(0.00%) |    255     198     388    240 |    0.57        0.00
         Aggregated                                                                       17     0(0.00%) |    255     198     388    240 |    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      /events                                                                         240    250    280    280    340    390    390    390    390    390    390     17
         Aggregated                                                                      240    250    280    280    340    390    390    390    390    390    390     17


C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>
C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>
```

SS8:



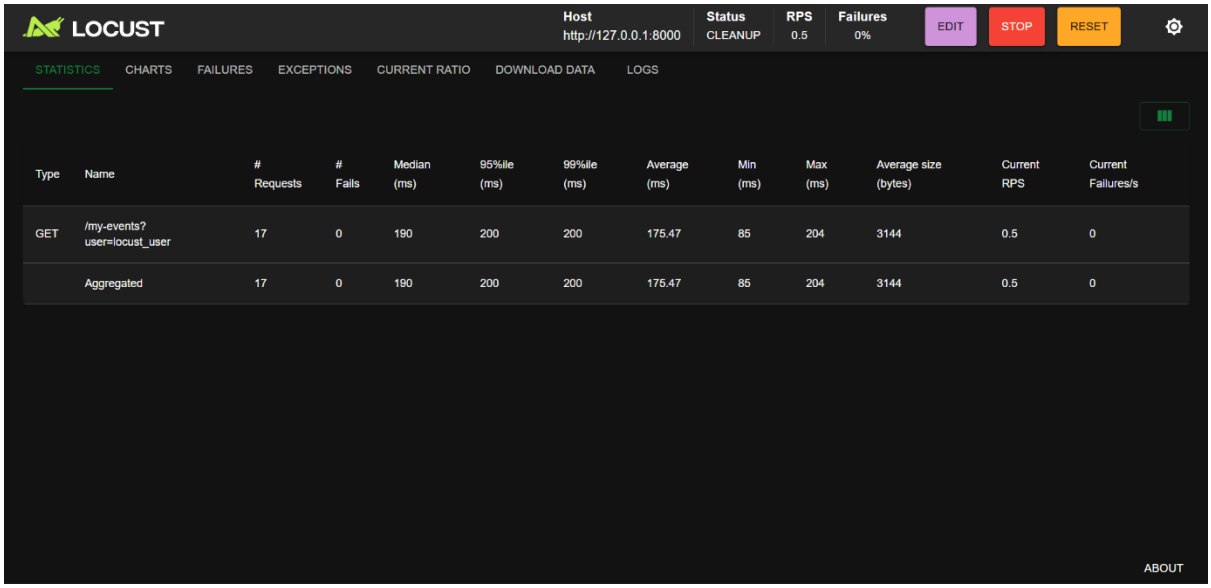

```
C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>
C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>python -m locust -f myevents_locustfile.py
[2026-01-29 15:33:15,817] Avanee/INFO/locust.main: Starting Locust 2.43.1
[2026-01-29 15:33:15,818] Avanee/INFO/locust.main: Starting web interface at http://localhost:8089, press enter to open your default browser.
[2026-01-29 15:33:25,543] Avanee/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2026-01-29 15:33:25,545] Avanee/INFO/locust.runners: All users spawned: {"MyEventsUser": 1} (1 total users)
Traceback (most recent call last):
  File "C:\Users\avane\AppData\Local\Programs\Python\Python313\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
2026-01-29T10:04:11Z
[2026-01-29 15:34:11,206] Avanee/INFO/locust.main: Shutting down (exit code 0)
Type     Name                                                                          # reqs      # fails |    Avg     Min     Max    Med |   req/s  failures/s
--------|----------------------------------------------------------------------------|-------|-------------|-------|-------|-------|-------|--------|-----------
GET      /my-events                                                                       19     0(0.00%) |    183     133     253    180 |    0.64        0.00
--------|----------------------------------------------------------------------------|-------|-------------|-------|-------|-------|-------|--------|-----------
         Aggregated                                                                       19     0(0.00%) |    183     133     253    180 |    0.64        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                                                                       180    190    190    190    200    250    250    250    250    250    250     19
--------|----------------------------------------------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------
         Aggregated                                                                       180    190    190    190    200    250    250    250    250    250    250     19


C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>
C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>
```

SS9:




```
C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>
C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>
C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>python -m locust -f myevents_locustfile.py
[2026-01-29 15:31:14,454] Avanee/INFO/locust.main: Starting Locust 2.43.1
[2026-01-29 15:31:14,455] Avanee/INFO/locust.main: Starting web interface at http://localhost:8089, press enter to open your default browser.
[2026-01-29 15:31:25,203] Avanee/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2026-01-29 15:31:25,205] Avanee/INFO/locust.runners: All users spawned: {"MyEventsUser": 1} (1 total users)
Traceback (most recent call last):
  File "C:\Users\avane\AppData\Local\Programs\Python\Python313\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
2026-01-29T10:02:34Z
[2026-01-29 15:32:34,869] Avanee/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                                                     17     0(0.00%) |    175      84     203    190 |    0.57        0.00
--------|----------------------------------------------------------------------------|-------|-------------|-------|-------|-------|-------|--------|-----------
         Aggregated                                                                      17     0(0.00%) |    175      84     203    190 |    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                                                       190    190    190    200    200    200    200    200    200    200    200     17
--------|----------------------------------------------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------
         Aggregated                                                                        190    190    190    200    200    200    200    200    200    200    200     17


C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>
C:\Users\avane\PES2UG23CS108\Monolith_CC_Lab-2 (1)\CC Lab-2\locust>
```

Bottleneck:

The /my-events route performed unnecessary processing for each request, resulting in additional overhead when handling concurrent users.

Change Made:

Redundant operations were removed and request handling was simplified to ensure that only required logic executes during each request.

Why Performance Improved:

By reducing unnecessary processing per request, CPU usage was lowered and the endpoint responded faster under load, improving overall throughput and response time.

Bottleneck:

The /events endpoint included inefficient processing that increased request handling time and reduced performance under concurrent load.

Change Made:

The route logic was optimized by removing unnecessary computation and simplifying request handling.

Why Performance Improved:

With reduced computational overhead, the server handled requests more efficiently, resulting in improved response times and more stable performance during load testing.