

NAME : PADMAA.K.B
SRN : PES2UG23CS254
SEC : D

Ss1 :

CC

Fest Monolith
FastAPI • SQLite • Locust


Logged in as PES2UG23CS254

Events

My Events

Checkout

Logout

Events

Welcome PES2UG23CS254. Register for events below.

View My Events →

Event ID: 1

₹ 500

Hackathon
Includes certificate • instant registration • limited seats

Register

Event ID: 2

₹ 300

Dance
Includes certificate • instant registration • limited seats

Register

Event ID: 3

₹ 500

Hackathon
Includes certificate • instant registration • limited seats

Register

Event ID: 4

₹ 300

Dance Battle
Includes certificate • instant registration • limited seats

Register

Event ID: 5

₹ 400

AI Workshop
Includes certificate • instant registration • limited seats

Register

Event ID: 6

₹ 200

Photography Walk
Includes certificate • instant registration • limited seats

Register

```
INFO: 127.0.0.1:51243 - "GET /checkout HTTP/1.1" 500 Internal Server Error
ERROR: Exception in ASGI application
Traceback (most recent call last):
```

Ss2 :

CC

Fest Monolith
FastAPI • SQLite • Locust


Logged in as PES2UG23CS254

Events

My Events

Checkout

Logout

 **Checkout**

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

Total Payable

₹ 6600

☒ 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

INFO: 127.0.0.1:62200 - "GET /checkout?user=PES2UG23CS254 HTTP/1.1" 200 OK

INFO: 127.0.0.1:62200 - "GET /checkout?user=PES2UG23CS254 HTTP/1.1" 200 OK

CC

Fest Monolith
FastAPI • SQLite • Locust


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 **Monolith Failure**

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

HTTP 500

CC Week X • Monolithic Applications Lab

Ss4 :

The screenshot shows a web browser at localhost:8089 displaying the Locust web interface. The 'CHECKOUT' endpoint is selected, showing 19 requests, 0 fails, and a median response time of 11ms. The terminal window shows the Locust command being run and the output of the 'checkout' endpoint.

Type	Name	# Requests	# Fails	Median (ms)	95%ile (ms)	99%ile (ms)	Average (ms)	Min (ms)	Max (ms)
GET	/checkout	19	0	11	2000	2000	118.4	9	2044
Aggregated		19	0	11	2000	2000	118.4	9	2044

```

CC_LAB2> main.py -f checkout
112 def checkout(request: Request, user: str = ""):
113     total = checkout_logic()
114     return templates.TemplateResponse(
115         "checkout.html",
116         {"request": request, "total": total, "user": user}
117     )
118 @app.exception_handler(Exception)
119 async def global_exception_handler(request: Request, exc: Exception):
120     # Try to keep user on UI even when it crashes
121     user = request.query_params.get("user", "")
122
PS C:\Users\De11\PES2UG23CS254\CC_LAB2> .venv\Scripts\activate
(.venv) PS C:\Users\De11\PES2UG23CS254\CC_LAB2> locust -f locust/checkout_locustfile.py
[2026-01-29 14:54:54,140] kbpad/INFO/locust.main: Starting Locust 2.43.1
[2026-01-29 14:54:54,143] kbpad/INFO/locust.main: Starting web interface at http://localhost:8089, press enter to open your default browser.
[2026-01-29 14:58:33,704] kbpad/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2026-01-29 14:58:33,706] kbpad/INFO/locust.runners: All users spawned: {"CheckoutUser": 1} (1 total users)
Traceback (most recent call last):
  File "C:\Users\De11\PES2UG23CS254\CC_LAB2\.venv\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
2026-01-29T09:34:45Z
-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
Type      Name      # reqs  # fails  Avg    95%ile  99%ile  Avg      Min    Max    Current  Current
GET      /checkout  19      0        11     2000    2000    118.4    9      2044    11      0.66
0.00
  
```

Ss6 :

The screenshot shows a web browser at localhost:8089 displaying the Locust web interface. The 'EVENTS' endpoint is selected, showing 10 requests, 0 fails, and a median response time of 340ms. The terminal window shows the Locust command being run and the output of the 'events' endpoint.

Type	Name	# Requests	# Fails	Median (ms)	95%ile (ms)	99%ile (ms)	Average (ms)	Min (ms)	Max (ms)	Average size (bytes)	Current RPS	Current Fails/s
GET	/events?user=locust_user	10	0	340	2400	2400	524.91	170	2447	21136	0.6	0
Aggregated		10	0	340	2400	2400	524.91	170	2447	21136	0.6	0

```

CC_LAB2> main.py -f events_locustfile.py
88 def my_events(request: Request, user: str):
89     JOIN registrations ON events.id = registrations.event_id
90     WHERE registrations.username=?
91     """
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```

localhost:8089

LOCUST

Host: http://localhost:8089

Status: STOPPED

RPS: 0.6

Failures: 0%

RESTART

STOP

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	12	0	6	2100	2100	183.25	4	2115	2138	0.6	0
Aggregated		12	0	6	2100	2100	183.25	4	2115	2138	0.6	0

main.py

events_locustfile.py

int.py

CC LAB2

main.py

```

43 def login(request: Request, username: str = Form(...), password: str = Form(...)):
44     return RedirectResponse(f"/events?user={username}", status_code=302)
45
46
47
48
49
50
51 @app.get("/events", response_class=HTMLResponse)
52 def events(request: Request, user: str):
53     db = get_db()
54     rows = db.execute("SELECT * FROM events").fetchall()
55
56     return templates.TemplateResponse(
57         "events.html",
58         {"request": request, "events": rows, "user": user})
59

```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

PowerShell - CC LAB2

```

(.venv) PS C:\Users\De11\PES2UG23CS254\CC LAB2> .\main.py
[2026-01-29 15:56:23,297] kbpad/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2026-01-29 15:56:23,300] kbpad/INFO/locust.runners: All users spawned: {"EventsUser": 1} (1 total users)
Traceback (most recent call last):
  File "C:\Users\De11\PES2UG23CS254\CC LAB2\.venv\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
2026-01-29 15:57:04,457 kbpad/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 12 0 0.61 0.00
Aggregated 12 0 0.61 0.00
Response time percentiles (approximated)
Type      Name      50%  60%  75%  80%  90%  95%  98%  99%  99.9%  99.99%  # reqs
-----
GET /events?user=locust_user 6 2100 2100 2100 2100 2100 2100 2100 2100 2100 12
Aggregated 6 2100 2100 2100 2100 2100 2100 2100 2100 2100 12

```

Ss8 :

localhost:8089

LOCUST

Host: http://localhost:8089

Status: CLEANUP

RPS: 0.6

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	/my-events?user=locust_user	11	0	47	2100	2100	239.58	45	2130	3144	0.6	0
Aggregated		11	0	47	2100	2100	239.58	45	2130	3144	0.6	0

main.py

my_events.py

user_events.py

CC LAB2

main.py

```

88 def my_events(request: Request, user: str):
89     JOIN registrations ON events.id = registrations.event_id
90     WHERE registrations.username=?
91     (user,)
92     ).fetchall()
93
94     # Artificial delay (INTENTIONALLY BAD)
95     dummy = 0
96

```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

PowerShell - CC LAB2

```

>> env> PS C:\Users\De11\PES2UG23CS254\CC LAB2> locust -f locust/myevents_locustfile.py
[2026-01-29 15:32:54,471] kbpad/INFO/locust.main: Starting Locust 2.43.1
[2026-01-29 15:32:54,472] kbpad/INFO/locust.main: Starting web interface at http://localhost:8089, press enter to open your default browser.
[2026-01-29 15:33:04,255] kbpad/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2026-01-29 15:33:04,260] kbpad/INFO/locust.runners: All users spawned: {"MyEventsUser": 1} (1 total users)
Traceback (most recent call last):
  File "C:\Users\De11\PES2UG23CS254\CC LAB2\.venv\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
2026-01-29 15:34:12,247 kbpad/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 11 0 0.00% 0.00
Aggregated 11 0 0.00% 0.00
Response time percentiles (approximated)
Type      Name      50%  60%  75%  80%  90%  95%  98%  99%  99.9%  99.99%  # reqs
-----
GET /my-events?user=locust_user 47 60 60 60 61 2100 2100 2100 2100 2100 11
Aggregated 47 60 60 60 61 2100 2100 2100 2100 2100 11

```

Ss9 :

<

```
main.py 3 X ..._init_.py ...user_events.py
CC_LAB2 > main.py > my_events
87 @app.get("/my-events", response_class=HTMLResponse)
88 def my_events(request: Request, user: str):
89     db = get_db()
90     rows = db.execute(
91         """
92         SELECT events.name, events.fee
93     """
94     )
95     return HTMLResponse(rows.fetchall())
96
97 File "C:\Users\De11\PE52UG23CS254\CC_LAB2\.venv\Lib\site-packages\gevent\_ffi\loop.py", line 279, in python_check_callback
98     def python_check_callback(self, watcher_ptr): # pylint:disable=unused-argument
99
100 KeyboardInterrupt
101 Aggregated
102 0 2100 11 47 60 60 60 61 2100 2100 2100 2100 210
103
104 PS C:\Users\De11\PE52UG23CS254\CC_LAB2> locust -f locust/myevents_locustfile.py
105
106 [2026-01-29 15:35:26,454] khpaid/INFO/locust.main: Starting locust 2.43.1
107 [2026-01-29 15:35:26,455] khpaid/INFO/locust.main: Starting web interface at http://localhost:8089, press enter to
108 open your default browser.
109 [2026-01-29 15:35:35,039] khpaid/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
110 [2026-01-29 15:35:35,039] khpaid/INFO/locust.runners: All users spawned: {"MyEventUser": 1} (1 total users)
111 Traceback (most recent call last):
112   File "C:\Users\De11\PE52UG23CS254\CC_LAB2\.venv\Lib\site-packages\gevent\_ffi\loop.py", line 279, in python_check_callback
113     def python_check_callback(self, watcher_ptr): # pylint:disable=unused-argument
114
115 KeyboardInterrupt
116 2026-01-29 15:36:25,937] khpaid/INFO/locust.main: Shutting down (exit code 0)
117
118 Type Name # reqs # fails | Avg Min Max Med | req/s failures/s
119 GET /my-events?user=locust_user 12 0(0.00%) | 176 2 2062 5 | 0.63 0.00
120 Aggregated 12 0(0.00%) | 176 2 2062 5 | 0.63 0.00
121
122 Response time percentiles (approximated)
123 Type Name 50% 66% 75% 80% 90% 95% 98% 99% 99.9% 99.99%
124 % 100% # reqs
125 GET /my-events?user=locust_user 6 7 8 8 8 8 2100 2100 2100 2100 210
126 0 2100 12
127 Aggregated 6 7 8 8 8 8 2100 2100 2100 2100 210
128 0 2100 12
```