

CLOUD COMPUTING

LAB-2

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Section: C

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SCREENSHOT-1

The screenshot shows a web application interface for event registration. At the top, there is a header bar with the text "Fest Monolith" and "FastAPI • SQLite • Locust". It also displays the user information "Logged in as PES2UG23CS198" and navigation links for "Events", "My Events", "Checkout", and "Logout".

The main content area is titled "Events" and contains a welcome message: "Welcome PES2UG23CS198. Register for events below." On the right side of this title is a button labeled "View My Events →".

The events are listed in a grid format:

- 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

SCREENSHOT-2

The screenshot shows a web application interface. At the top, there is a header with the logo 'cc' and the text 'Fest Monolith' followed by 'FastAPI • SQLite • Locust'. On the right side of the header are 'Login' and 'Create Account' buttons. A red rounded rectangle in the top right corner contains the text 'HTTP 500'.

The main content area has a title 'Monolith Failure' with a star icon. Below it, a message states: 'One bug in one module impacted the [entire application](#)'. A pink rounded rectangle labeled 'Error Message' contains the text 'division by zero'.

Two sections are present below: 'Why did this happen?' and 'What should you do in the lab?'. The 'Why did this happen?' section explains that because it's a monolithic application, all modules share the same runtime and deployment, so a bug in one module affects the whole system. The 'What should you do in the lab?' section lists three steps: taking a screenshot, fixing the bug, and restarting the server.

At the bottom left are 'Back to Events' and 'Login' buttons. The footer at the bottom of the page reads 'CC Week X • Monolithic Applications Lab'.

SCREENSHOT-3

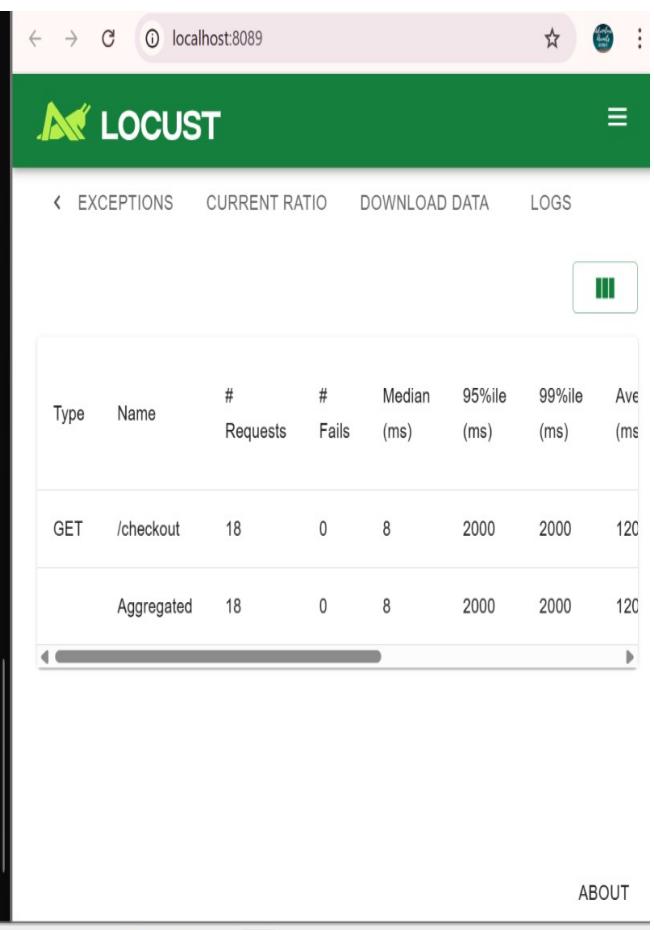
The screenshot shows a web application interface. At the top, there is a header with the logo 'cc' and the text 'Fest Monolith' followed by 'FastAPI • SQLite • Locust'. On the right side of the header are 'Login' and 'Create Account' buttons. The browser address bar shows 'localhost:8000/checkout'.

The main content area has a title 'Checkout' with a credit card icon. Below it, a message says: 'This route is used to demonstrate a monolith crash + optimization.' A box labeled 'Total Payable' shows '₹ 6600'. A green callout box contains the text: 'After fixing + optimizing checkout logic, re-run Locust and compare results.' Another green callout box on the right lists what to observe: 'One buggy feature can crash the entire monolith.', 'Inefficient loops cause high response times under load.', and 'Optimization improves performance but architecture still scales as one unit.' A note at the bottom right suggests: 'Next Lab: Split this monolith into Microservices (Events / Registration / Checkout).'

The footer at the bottom of the page reads 'CC Week X • Monolithic Applications Lab'.

SCREENSHOT-4

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-----||-----|-----|-----|-----|-----|-----  
--|-----|-----|-----  
  
(.venv) C:\Users\HP\PES2UG23CS198\CC_LAB2>locust -f locust/checkout_locustfile.py  
[2026-01-20 14:51:04,812] Ananya/INFO/locust.main: Starting Locust 2.43.1  
[2026-01-20 14:51:04,813] Ananya/INFO/locust.main: Starting web interface at http://localhost:8089, press enter to open your default browser.  
[2026-01-20 14:52:05,459] Ananya/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second  
[2026-01-20 14:52:05,460] Ananya/INFO/locust.runners: All users spawned: {"CheckoutUser": 1} (1 total users)  
|
```



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| |-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| |-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| |-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Aggregated      0      0(0.00%) |      0      0
0   0 |  0.00    0.00
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
Response time percentiles (approximated)
Type   Name   50%   66%   75%   80%   90%   95%   98%
99% 99.9% 99.99% 100% # reqs
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
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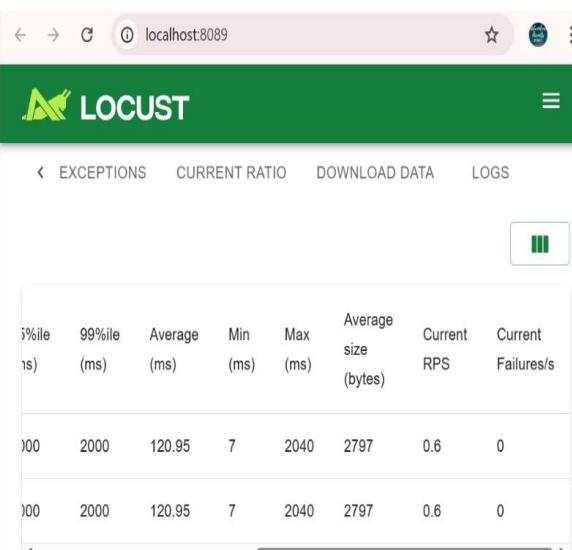
(.venv) C:\Users\HP\PES2UG23CS198\CC_LAB2\CC Lab-2>locust -f locust/checkout_locustfile.py

[2026-01-20 14:51:04,812] Ananya/INFO/locust.main: Starting Locust 2.43.1

[2026-01-20 14:51:04,813] Ananya/INFO/locust.main: Starting web interface at <http://localhost:8089>, press enter to open your default browser.

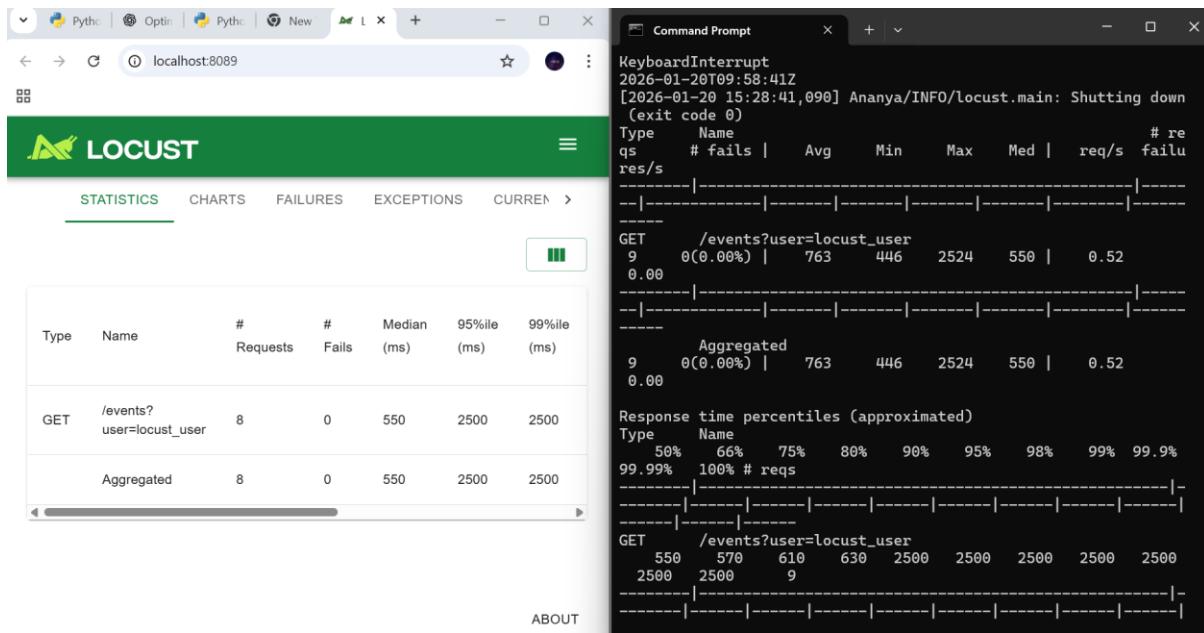
[2026-01-20 14:52:05,459] Ananya/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second

[2026-01-20 14:52:05,460] Ananya/INFO/locust.runners: All users spawned: {"CheckoutUser": 1} (1 total users)

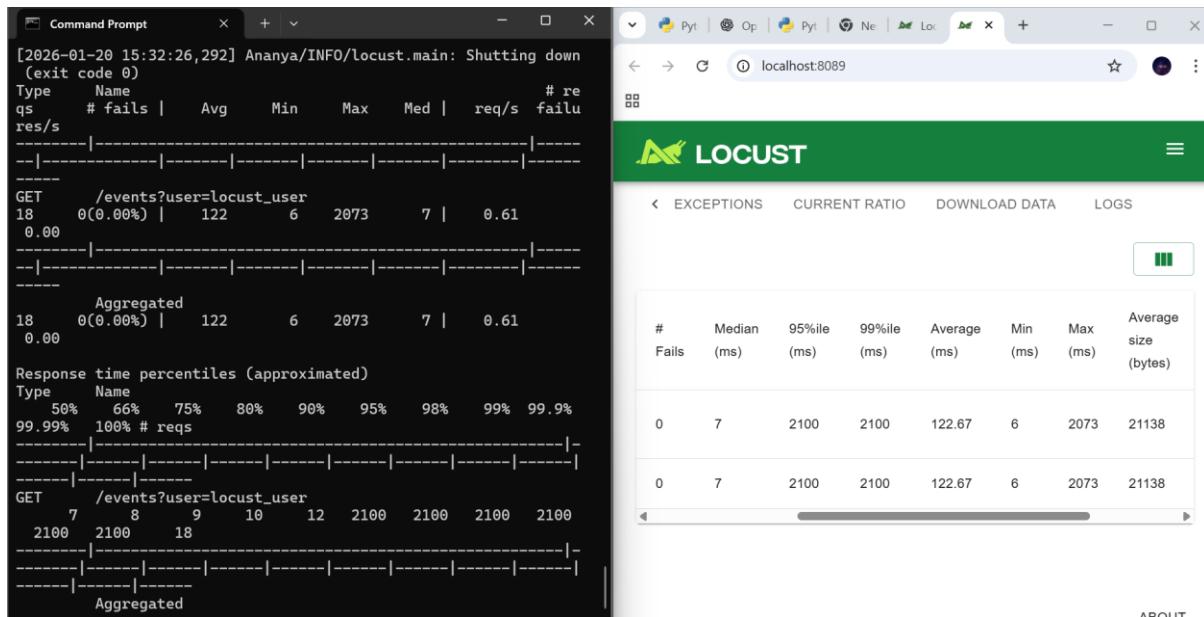


SCREENSHOT-5

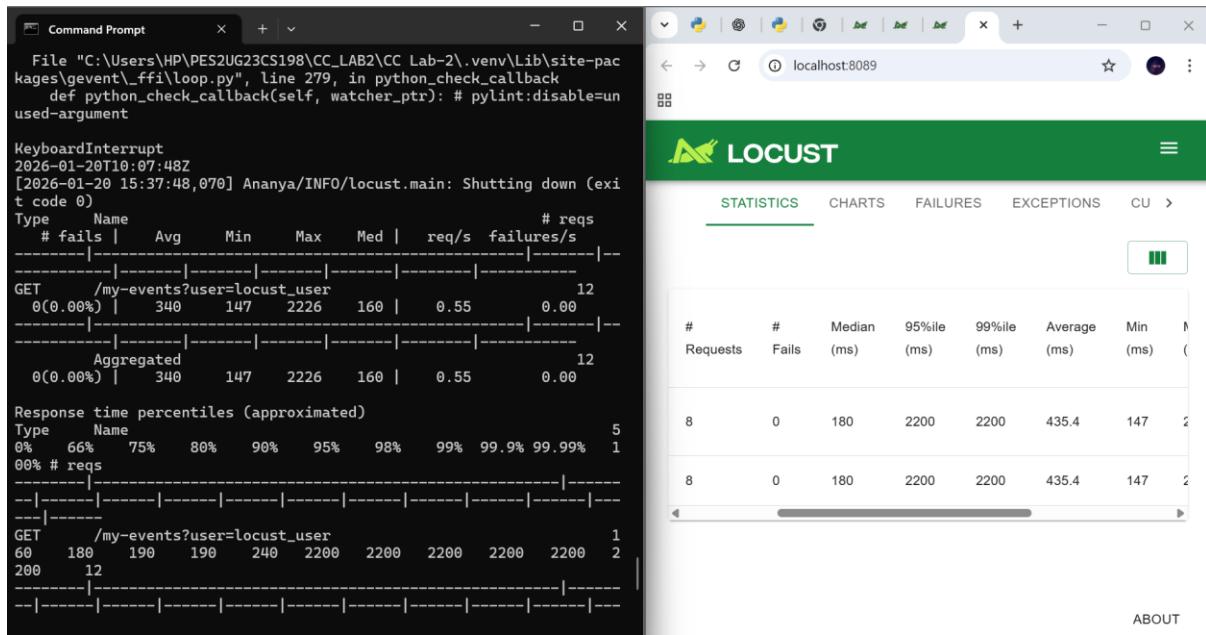
SCREENSHOT-6



SCREENSHOT 7



SCREENSHOT-8



SCREENSHOT-9

