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SEC : D

Ss1 :

The screenshot shows the Fest Monolith Events page. At the top, there is a header with the logo 'Fest Monolith' (CC icon), the text 'FastAPI • SQLite • Locust', and navigation links for 'Events', 'My Events', 'Checkout', and 'Logout'. A message 'Logged in as PES2UG23CS254' is also present. On the right, there is a button 'View My Events →'. Below the header, the page title is 'Events' with a small icon. A welcome message says 'Welcome PES2UG23CS254. Register for events below.' There are six event cards arranged in two rows of three:

- Event ID: 1** (Hackathon) - ₹ 500. Includes certificate • instant registration • limited seats. **Register**
- Event ID: 2** (Dance) - ₹ 300. Includes certificate • instant registration • limited seats. **Register**
- Event ID: 3** (Hackathon) - ₹ 500. Includes certificate • instant registration • limited seats. **Register**
- Event ID: 4** (Dance Battle) - ₹ 300. Includes certificate • instant registration • limited seats. **Register**
- Event ID: 5** (AI Workshop) - ₹ 400. Includes certificate • instant registration • limited seats. **Register**
- Event ID: 6** (Photography Walk) - ₹ 200. 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 :

 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
□
```

 Fest Monolith
FastAPI • SQLite • Locust

Logged in as PES2UG23CS254 [Events](#) [My Events](#) [Checkout](#) [Logout](#)

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.

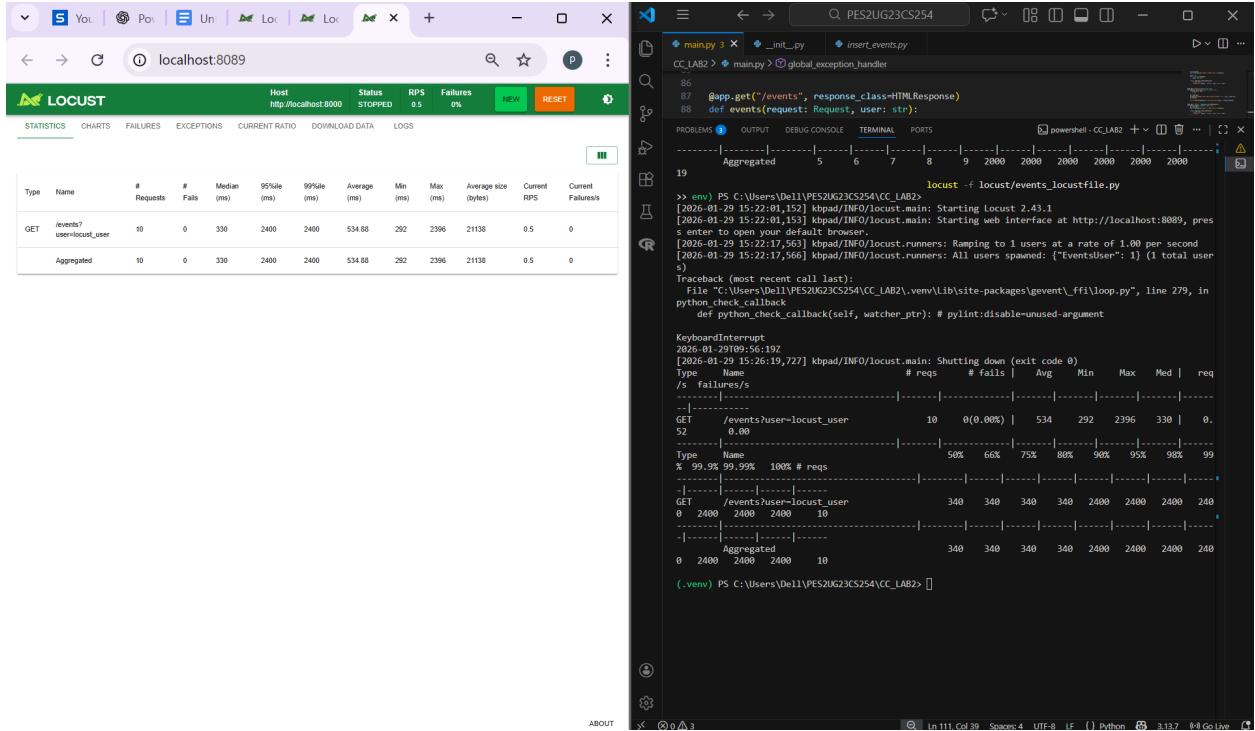
What should you do in the lab?

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

[Back to Events](#) [Login](#)

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Ss4 :



Ss5 :

The screenshot shows a Windows desktop environment with several open windows:

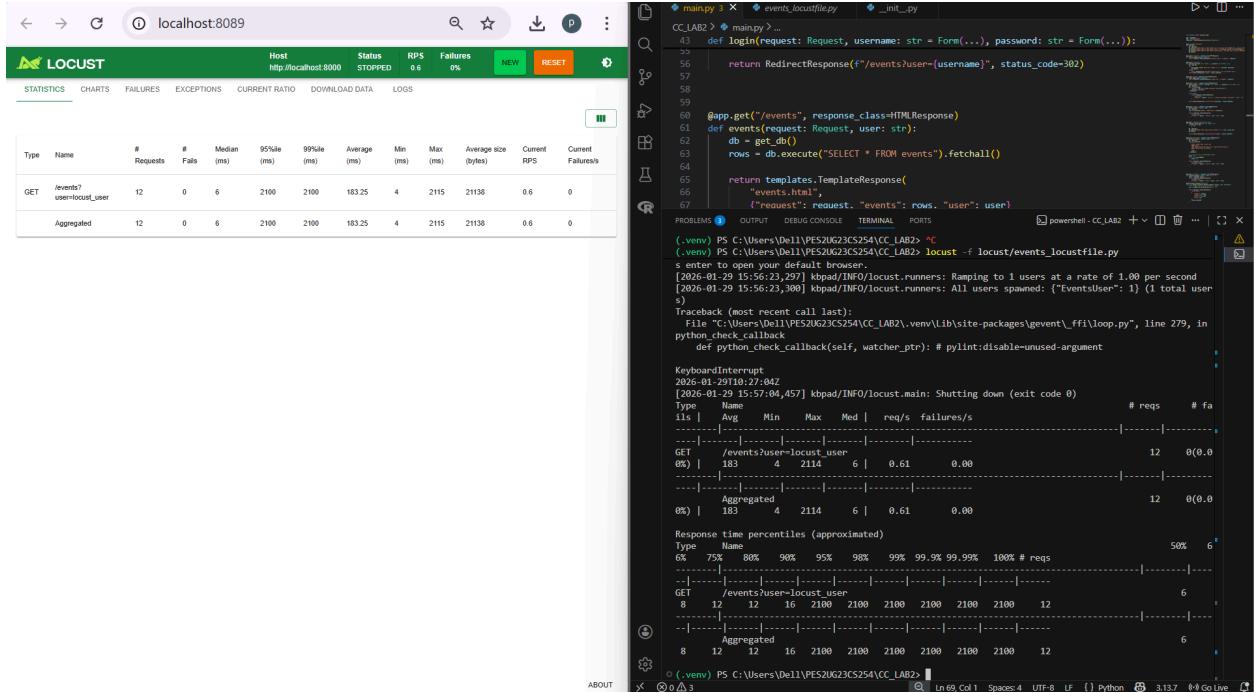
- Locust Performance Test Results:** A browser window displaying Locust's performance test interface. It shows statistics for a single user scenario named "Checkout". The table includes columns for Type, Name, # Requests, # Fails, Median (ms), 95%ile (ms), 99%ile (ms), Average (ms), Min (ms), and Max (ms). The "Checkout" scenario has 19 requests, 0 fails, and a median response time of 11 ms.
- Code Editor:** An integrated development environment (IDE) showing Python code for a Locust file. The code defines a "Checkout" task and handles exceptions. It also includes a command-line interface for running Locust tests.
- Terminal:** A terminal window showing the command-line output of the Locust test run. It includes logs from the Locust runner and kbpad, indicating the test started at 14:54:54 and ramped up to 1 user at 1.00 per second.
- System Tray:** Shows the date (1/29/2026), time (3:06 PM), battery status (Sunny), and system icons.

Ss6 :

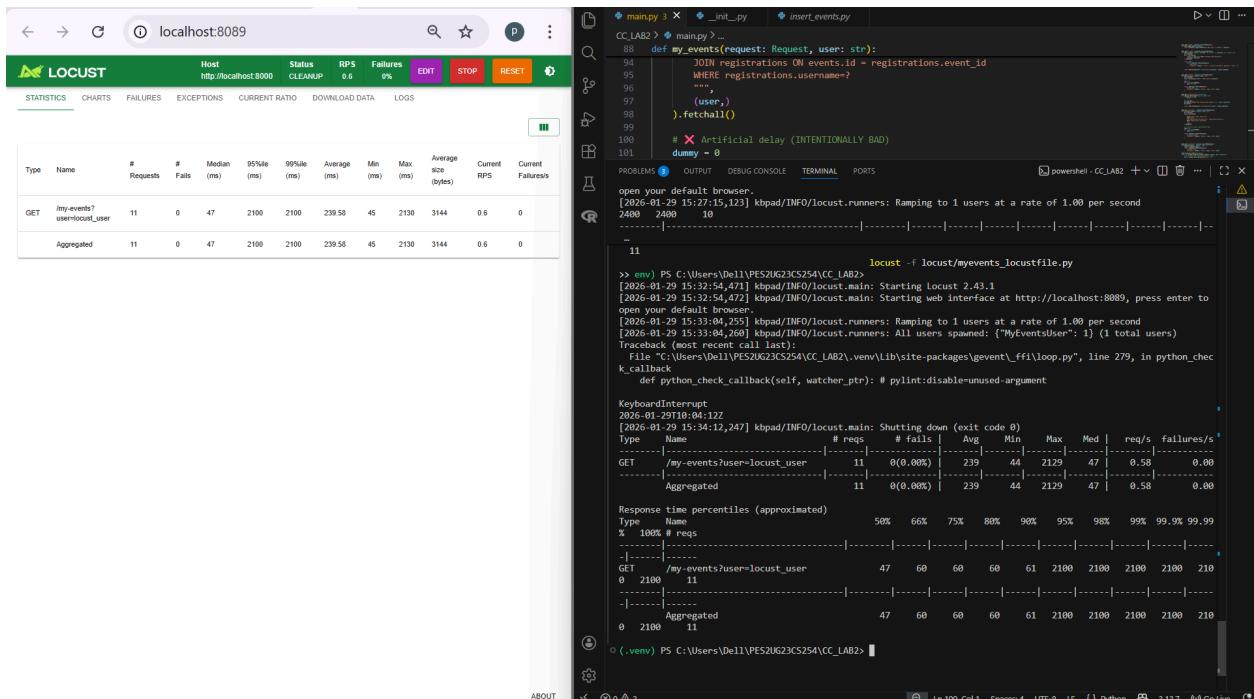
The screenshot shows a Windows desktop environment with several open windows:

- Locust Performance Test Results:** A browser window displaying Locust's performance test interface. It shows statistics for a single user scenario named "events_user-locust_user". The table includes columns for Type, Name, # Requests, # Fails, Median (ms), 95%ile (ms), 99%ile (ms), Average (ms), Min (ms), Max (ms), Average size (bytes), Current RPS, and Current Failures/s. The "events_user-locust_user" scenario has 10 requests, 0 fails, and a median response time of 340 ms.
- Code Editor:** An integrated development environment (IDE) showing Python code for a Locust file. The code defines a "my_events" task and handles exceptions. It also includes a command-line interface for running Locust tests.
- Terminal:** A terminal window showing the command-line output of the Locust test run. It includes logs from the Locust runner and kbpad, indicating the test started at 15:52:43 and ramped up to 1 user at 1.00 per second.
- System Tray:** Shows the date (1/29/2026), time (3:06 PM), battery status (Sunny), and system icons.

Ss7 :



Ss8 :



Ss9 :

