

CC LAB 2

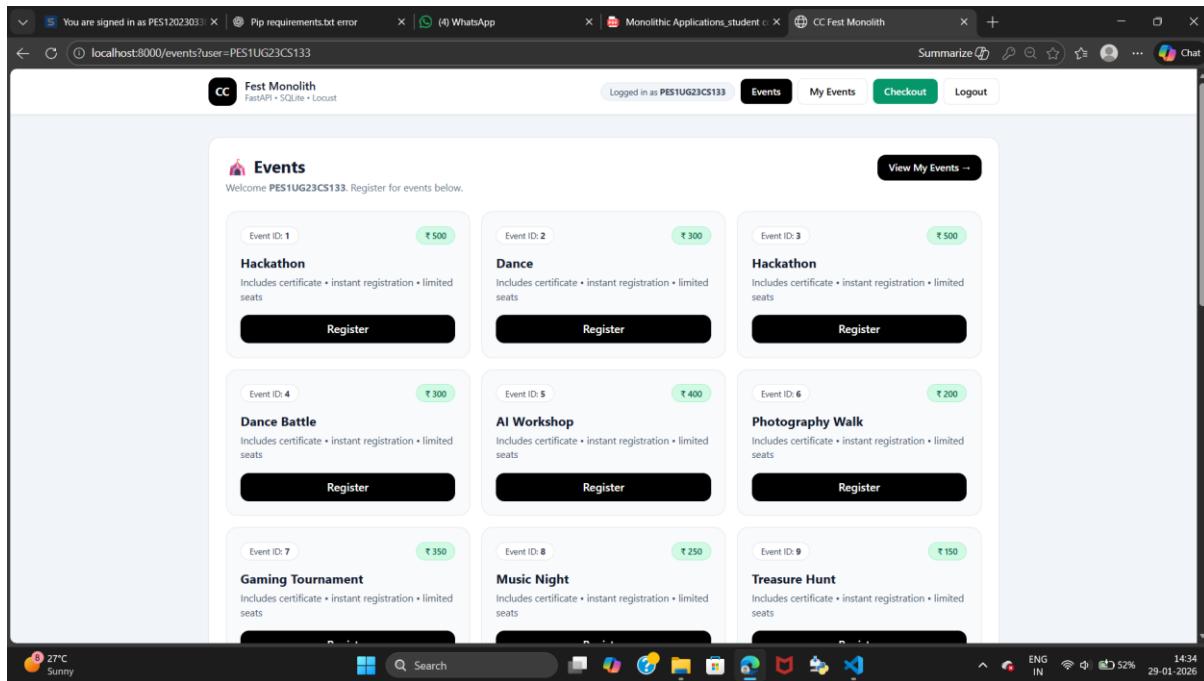
NAME: B M Krupa

SRN: PES1UG23CS133

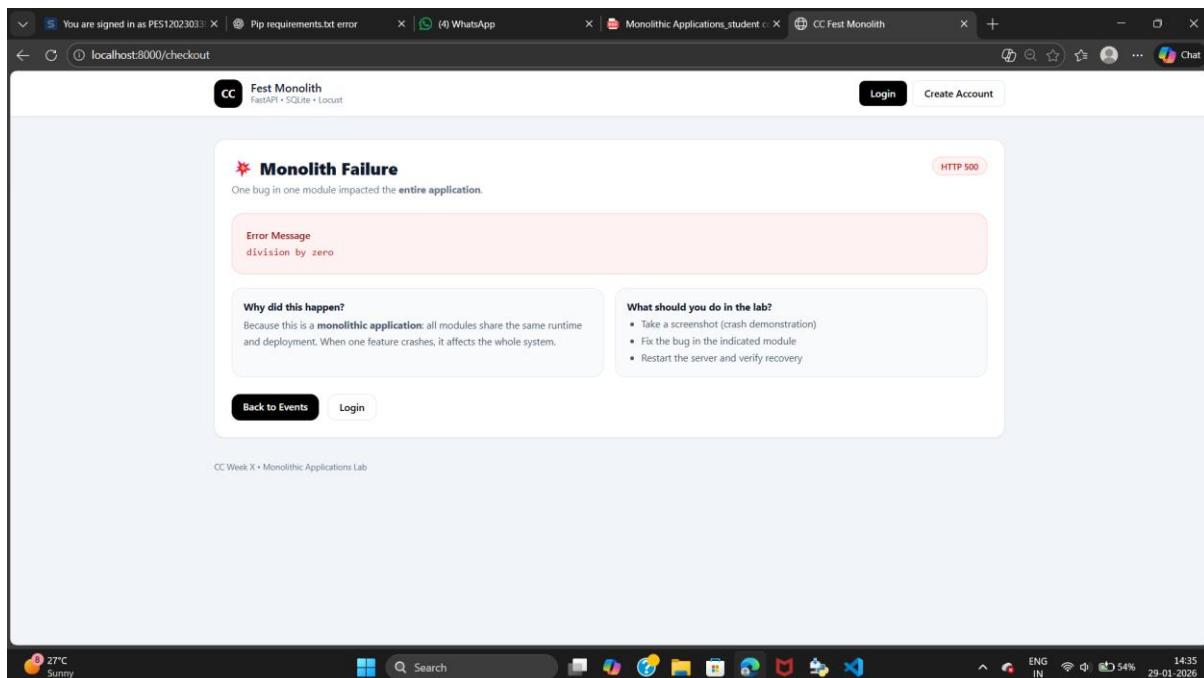
SEC: C

REPO LINK: https://github.com/BMKrupa/PES1UG23CS133_CCLAB2.git

SS1

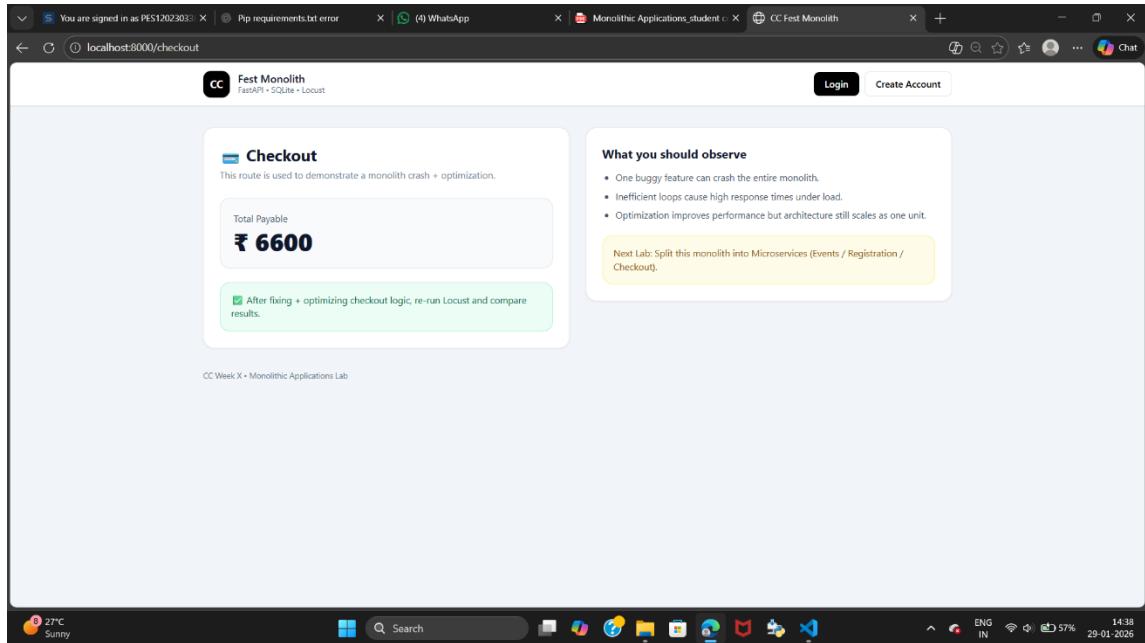


SS2



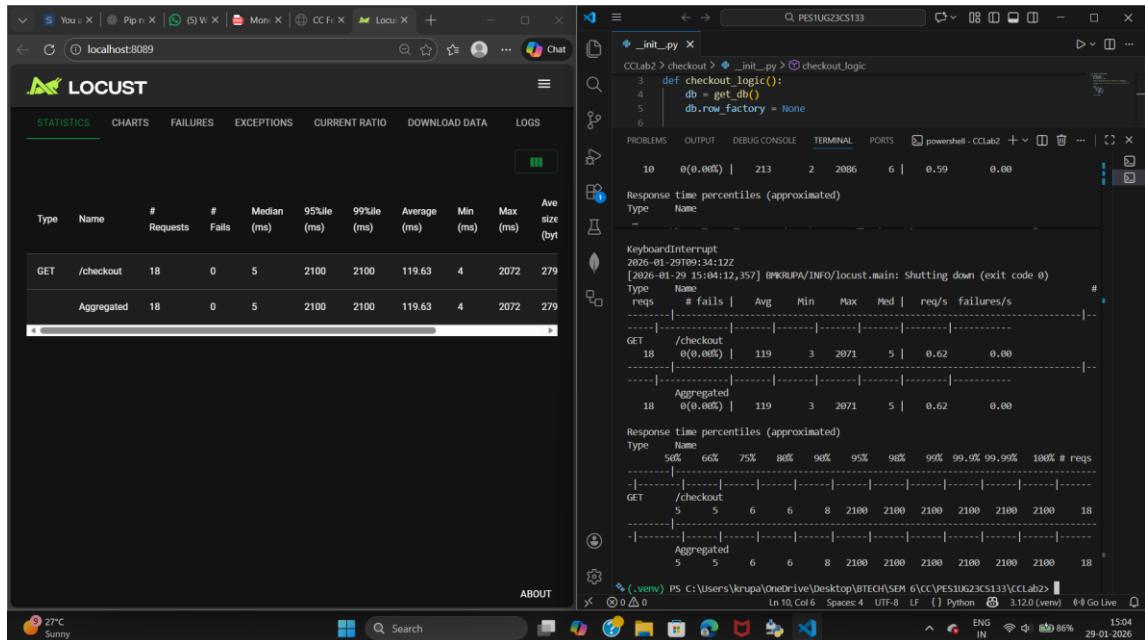
```
INFO:    127.0.0.1:55777 - "GET /checkout HTTP/1.1" 500 Internal Server Error
ERROR:   Exception in ASGI application
Traceback (most recent call last):
  File "C:\Users\krupa\OneDrive\Desktop\BTECH\SEM 6\CC\PES1UG23CS133\.venv\lib\site-packages\uvicorn\protocols\http\h11_impl.py", line 410, in run_asgi
    result = await app( # type: ignore[func-returns-value]
```

SS3



```
[INFO]: Application startup complete.  
[INFO]: 127.0.0.1:52954 - "GET /checkout HTTP/1.1" 200 OK
```

SS4



SS5

AFTER

The screenshot shows a dual-monitor setup. The left monitor displays the Locust web interface with performance metrics for a '/checkout' endpoint. The right monitor shows a terminal window running a Python script named 'ffii_loop.py'.

Locust Performance Metrics:

Type	Name	# Requests	# Fails	Median (ms)	95%ile (ms)	99%ile (ms)	Average (ms)	Min (ms)	Max (ms)	Ave size (byt)
GET	/checkout	18	0	5	2100	2100	121.3	3	2086	279
Aggregated										
		18	0	5	2100	2100	121.3	3	2086	279

Terminal Output (ffii_loop.py):

```
def checkout_logic():
    events = db.execute("SELECT fee FROM events").fetchall()
    for event in events:
        # Process event logic here
        pass

if __name__ == "__main__":
    args.eventloop.loop("ffii_loop.py", line 279, in python_check_callback
      def python_check_callback(self, watcher_ptr): # pylint:disable=unused-argument
```

KeyboardInterrupt:

```
[2026-01-29T09:37:38Z] [2026-01-29 15:07:38,337] BMKRUPA/INFO/locust.main: Shutting down (exit code 0)
```

Type	Name	# reqs	# fails	Avg	Min	Max	Med	req/s	failures/s
GET	/checkout	18	0 (0.0%)	121	3	2086	279	0.64	
Aggregated									
		18	0 (0.0%)	121	3	2086	279	0.64	

Response time percentiles (approximated):

Type	Name	50%	66%	75%	80%	90%	95%	98%	99%	99.9%	99.99%
GET	/checkout	6	6	7	7	12	2100	2100	2100	2100	2100
Aggregated											
		6	6	7	7	12	2100	2100	2100	2100	2100

System Status:

- Temperature: 27°C
- Battery: 89%
- Network: IN
- Signal: 3.12.0 (venv)
- Language: ENG
- Date: 29-01-2026
- Time: 15:08:26

/events

SS6

BEFORE

SS7

AFTER

The screenshot shows the Locust web interface with the 'STATISTICS' tab selected. The results table displays the following data for the '/events?user=locust_user' endpoint:

Type	Name	# Requests	# Fails	Median (ms)	95%ile (ms)	99%ile (ms)	Average (ms)	Min (ms)	Max (ms)
GET	/events?user=locust_user	18	0	7	2100	2100	121.77	5	2069
	Aggregated	18	0	7	2100	2100	121.77	5	2069

Below the table, a chart shows the response time distribution. The terminal window on the right shows the command used to run the test and some log output.

/my-events

SS8

BEFORE

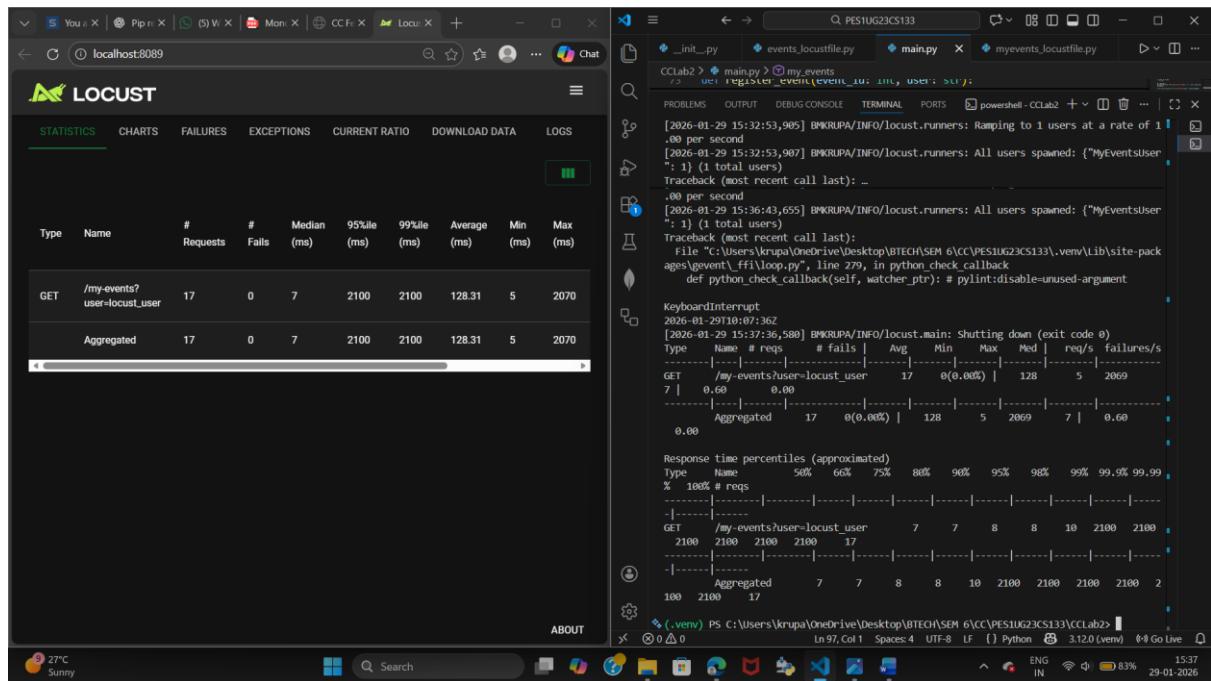
The screenshot shows the Locust web interface with the 'STATISTICS' tab selected. The results table displays the following data for the '/my-events?user=locust_user' endpoint:

Type	Name	# Requests	# Fails	Median (ms)	95%ile (ms)	99%ile (ms)	Average (ms)	Min (ms)	Max (ms)
GET	/my-events?user=locust_user	18	0	180	2300	2300	293.77	149	2257
	Aggregated	18	0	180	2300	2300	293.77	149	2257

Below the table, a chart shows the response time distribution. The terminal window on the right shows the command used to run the test and some log output.

SS9

AFTER



Route 1: /events

Bottleneck:

The route contained an unnecessary CPU-intensive loop that executed millions of iterations without contributing to the response.

Change Made:

The redundant loop was removed, keeping only the database query and template rendering logic.

Why Performance Improved:

Eliminating wasted CPU computation reduced response time and allowed the server to handle requests faster under load.

Route 2: /my-events

Bottleneck:

The route included a dummy loop performing a large number of iterations that did not affect the output but consumed CPU resources.

Change Made:

The unnecessary loop was removed while retaining the database query and response logic.

Why Performance Improved:

Removing redundant processing lowered CPU usage per request, resulting in faster responses and better performance during load testing.