

## CC LAB 2

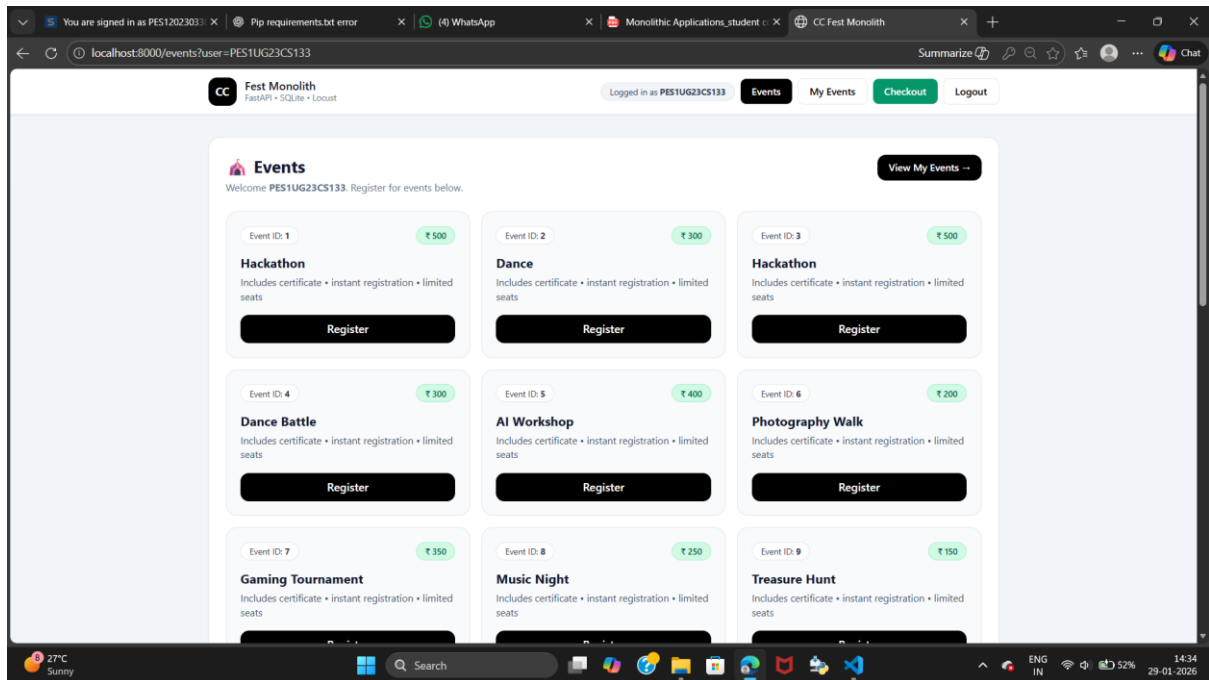
NAME: B M Krupa

SRN: PES1UG23CS133

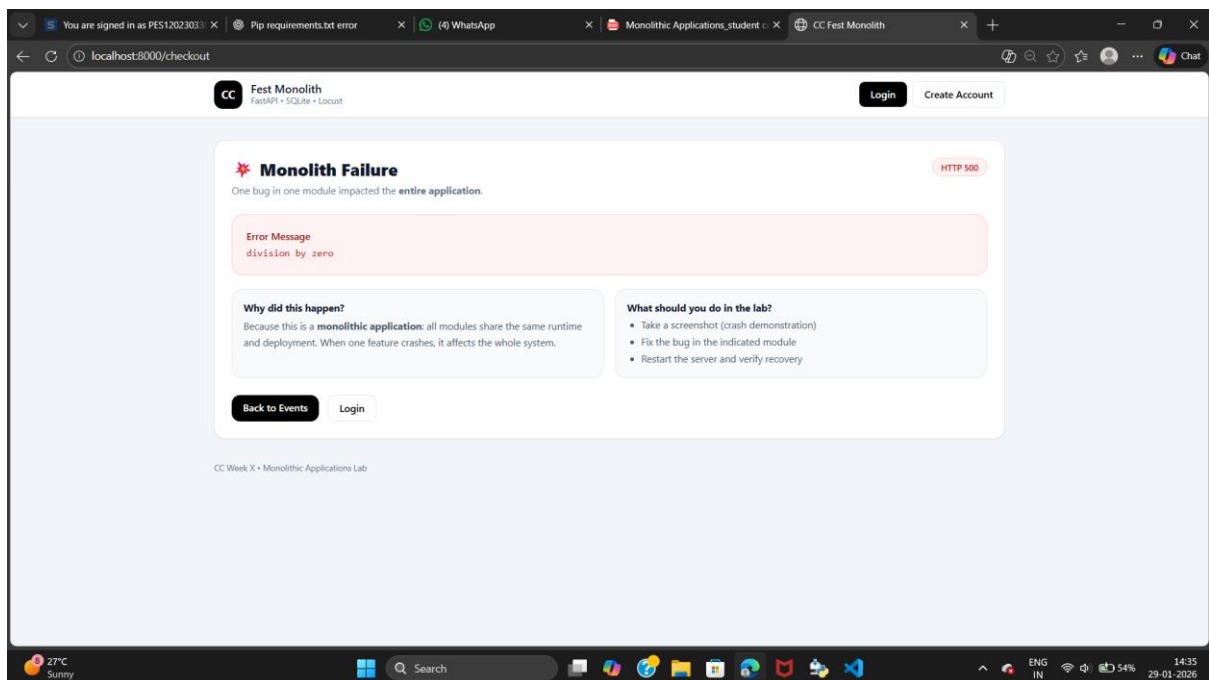
SEC: C

REPO LINK: [https://github.com/BMKrupa/PES1UG23CS133\\_CCLAB2.git](https://github.com/BMKrupa/PES1UG23CS133_CCLAB2.git)

SS1

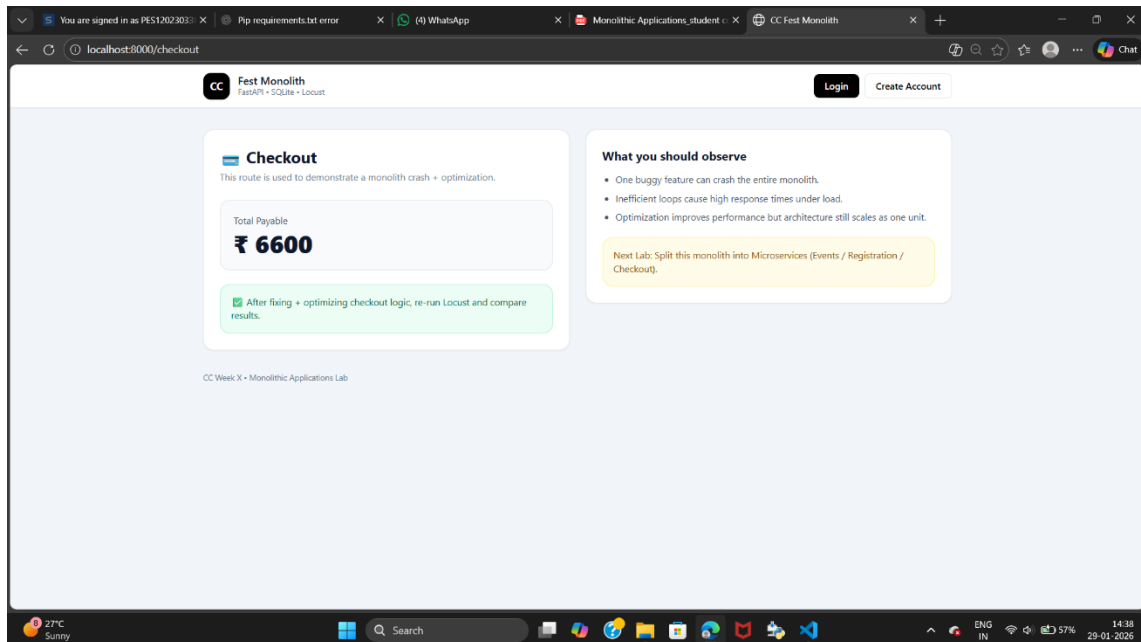


SS2



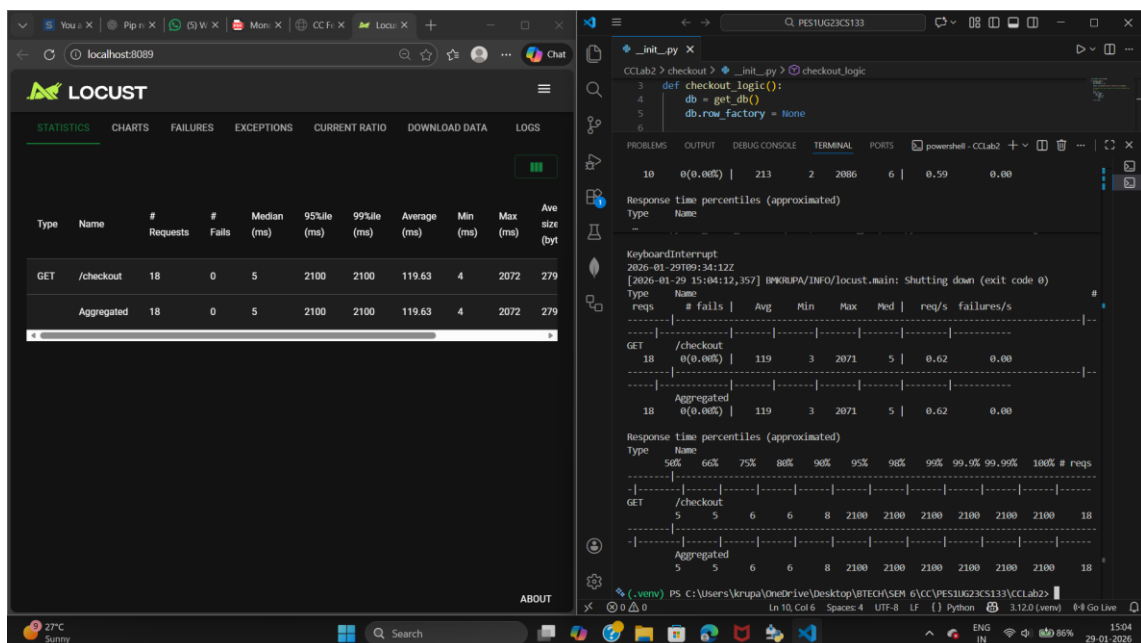
```
INFO: 127.0.0.1:55777 - "GET /checkout HTTP/1.1" 500 Internal Server Error
ERROR: Exception in ASGI application
Traceback (most recent call last):
  File "c:\Users\Krupa\OneDrive\Desktop\BTECH\SEM 6\CC\PES1UG23CS133\.venv\Lib\site-packages\uvicorn\protocols\http\h11_impl.py", line 410, in run_asgi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

## SS3



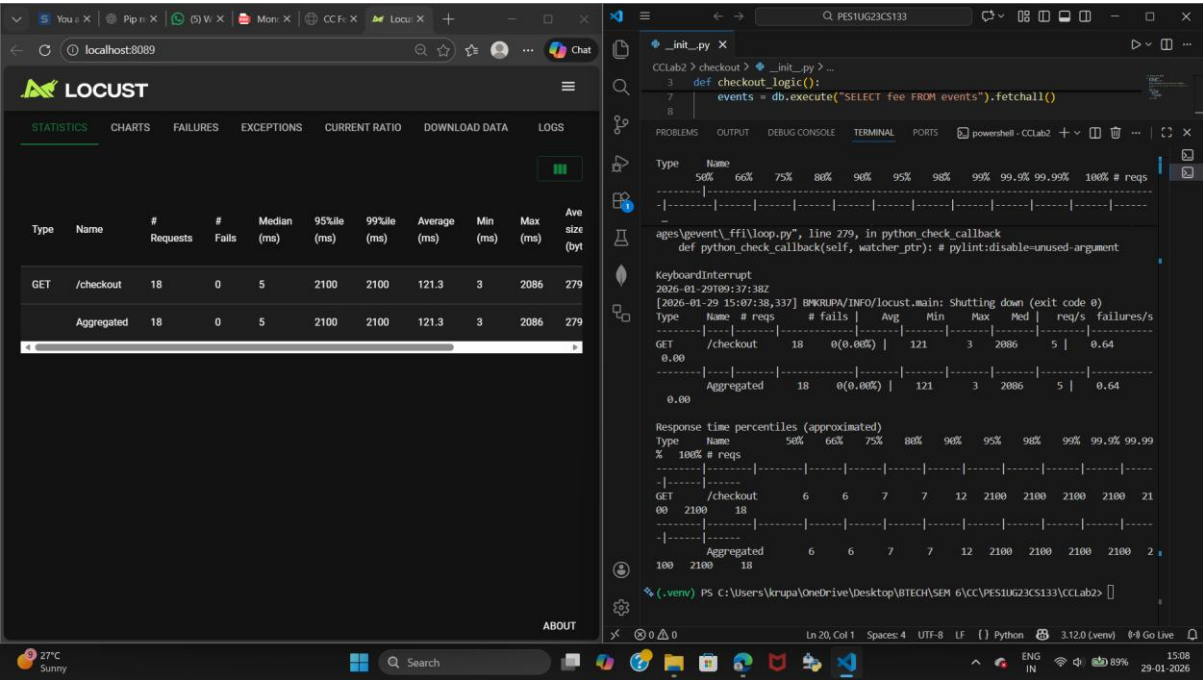
```
INFO: Application startup complete.
INFO: 127.0.0.1:52954 - "GET /checkout HTTP/1.1" 200 OK
```

## SS4



SS5

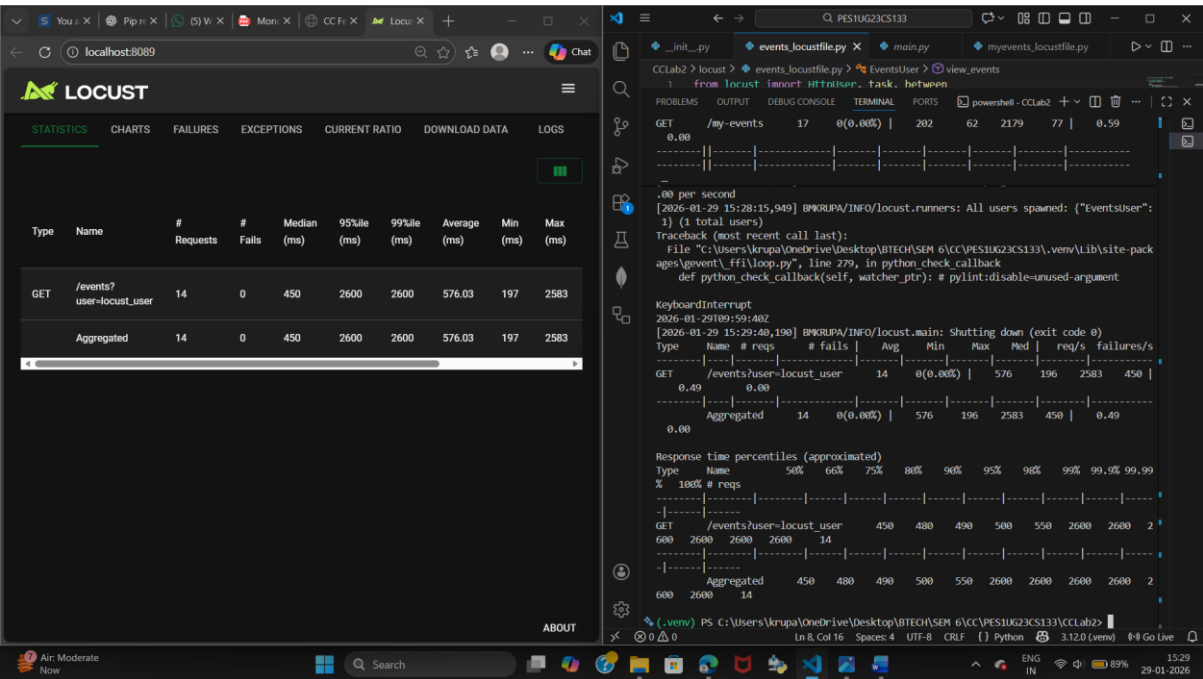
AFTER



/events

SS6

BEFORE



SS7

AFTER

The screenshot shows the Locust web interface at localhost:8089 and a terminal window. The Locust interface displays statistics for the endpoint `/events?user=locust_user`. The terminal shows the Locust runner output, including a keyboard interrupt and a shutdown message.

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

```
KeyboardInterrupt
1) (1 total users)
Traceback (most recent call last):
  File "C:\Users\krupa\OneDrive\Desktop\BTECH\SEM 6\CC\PES1UG23CS133\.venv\Lib\site-pack
ages\event_ffil\loop.py", line 279, in python_check_callback
    def python_check_callback(self, watcher_ptr): # pylint:disable=unused-argument

KeyboardInterrupt
2026-01-29 15:32:02:19Z
[2026-01-29 15:32:19,764] BMRUPA/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 18 0(0.00%) 121 5 2069 7 |
0.63 0.00
-----
Aggregated 18 0(0.00%) 121 5 2069 7 | 0.63
0.00

Response time percentiles (approximated)
Type Name 50% 60% 75% 80% 90% 95% 98% 99% 99.5% 99.9%
% 100% # reqs
-----
GET /events?user=locust_user 8 8 8 8 8 9 2100 2100 2
100 2100 2100 2100 18
-----
Aggregated 8 8 8 8 8 9 2100 2100 2100 2
100 2100 18
```

/my-events

SS8

BEFORE

The screenshot shows the Locust web interface at localhost:8089 and a terminal window. The Locust interface displays statistics for the endpoint `/my-events?user=locust_user`. The terminal shows the Locust runner output, including a keyboard interrupt and a shutdown message.

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

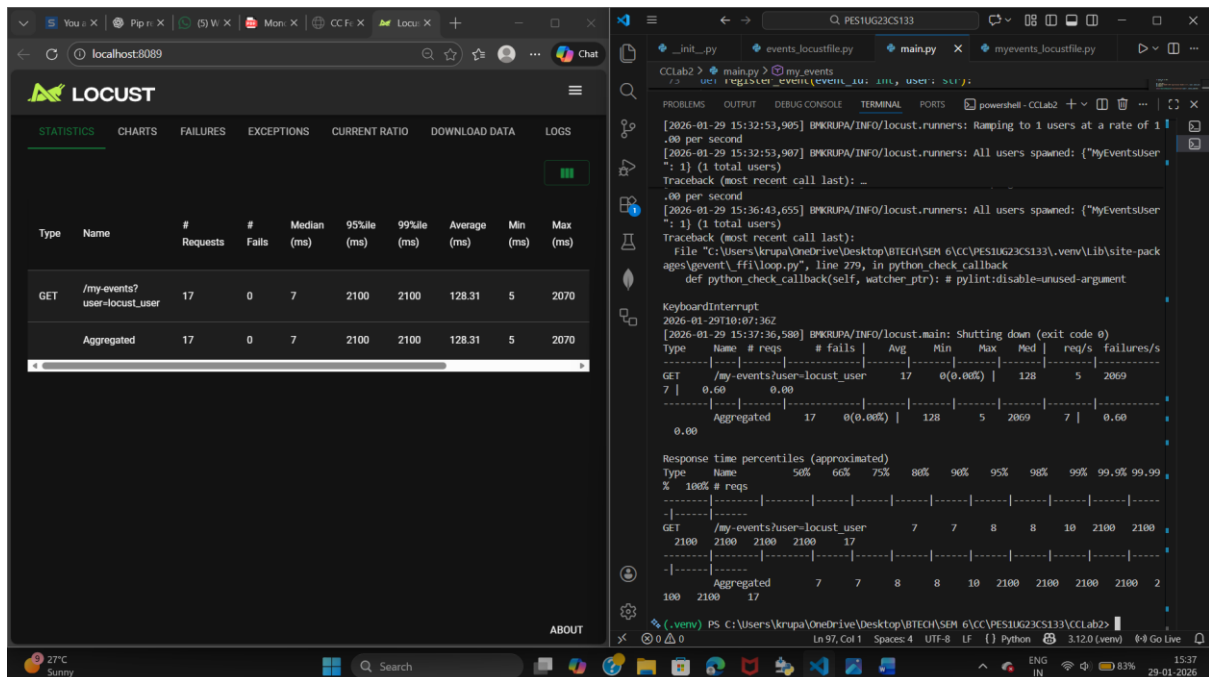
```
KeyboardInterrupt
1) (1 total users)
Traceback (most recent call last):
  File "C:\Users\krupa\OneDrive\Desktop\BTECH\SEM 6\CC\PES1UG23CS133\.venv\Lib\site-pack
ages\event_ffil\loop.py", line 279, in python_check_callback
    def python_check_callback(self, watcher_ptr): # pylint:disable=unused-argument

KeyboardInterrupt
2026-01-29 15:34:03:783Z
[2026-01-29 15:34:03,783] BMRUPA/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 18 0(0.00%) 293 149 2256 18
0 | 0.61 0.00
-----
Aggregated 18 0(0.00%) 293 149 2256 18 | 0.61
0.00

Response time percentiles (approximated)
Type Name 50% 60% 75% 80% 90% 95% 98% 99% 99.5% 99.9%
% 100% # reqs
-----
GET /my-events?user=locust_user 180 190 190 190 210 2300 2300
2300 2300 2300 2300 18
-----
Aggregated 180 190 190 190 210 2300 2300 2300 2
300 2300 18
```

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.