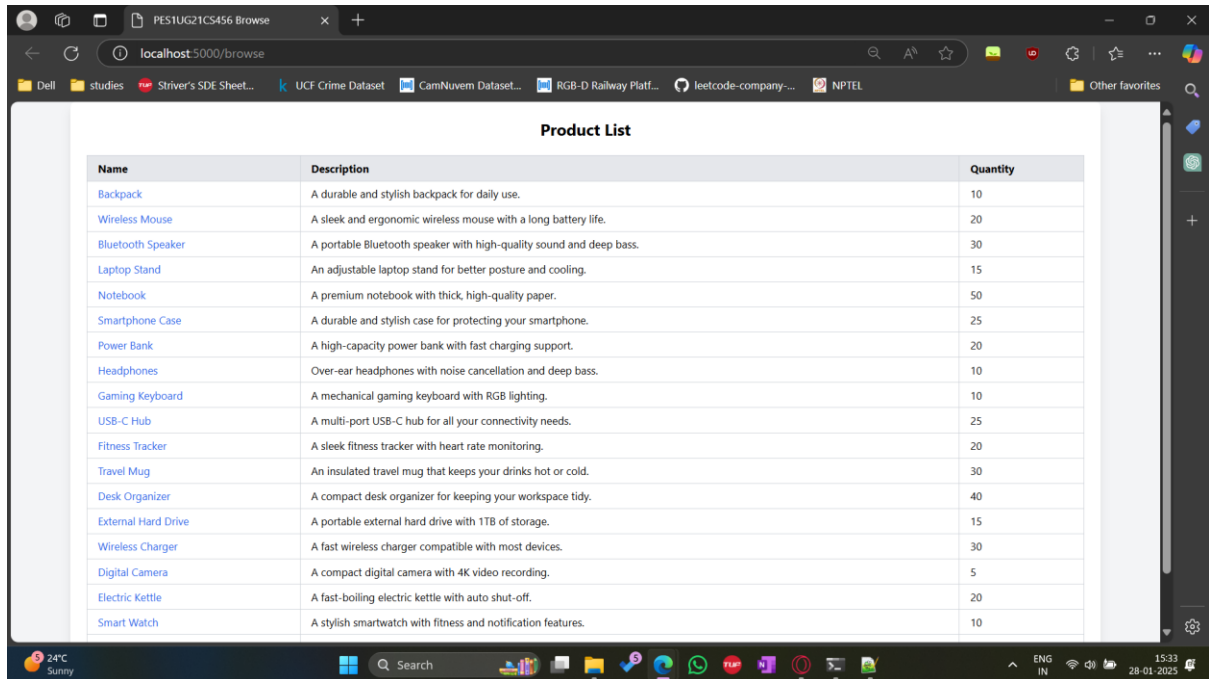


Cloud Computing Lab-3

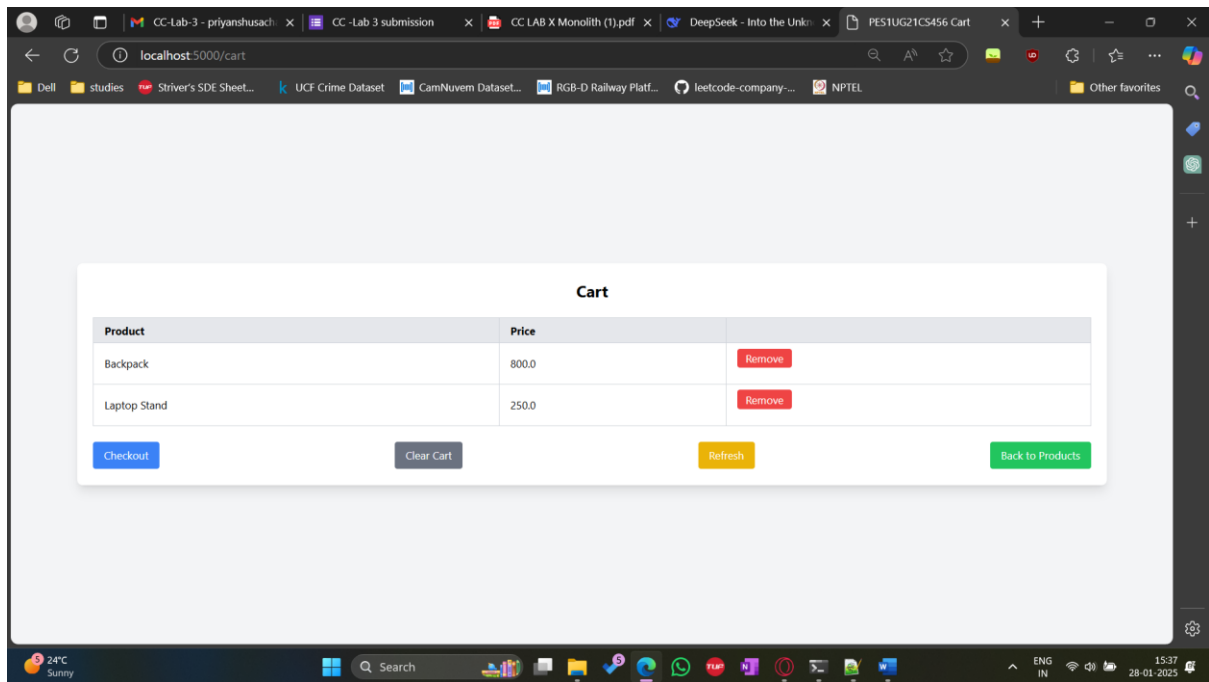
Priyanshu Sachan

PES1UG22CS456 Section:H

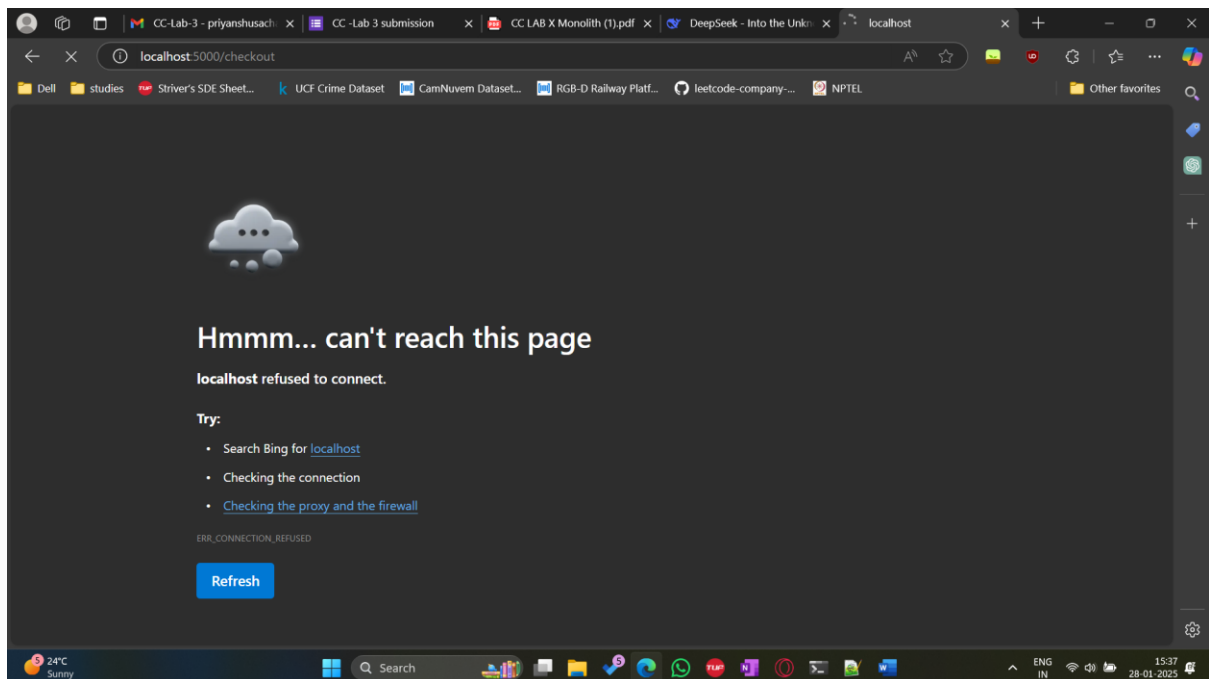
Ss1



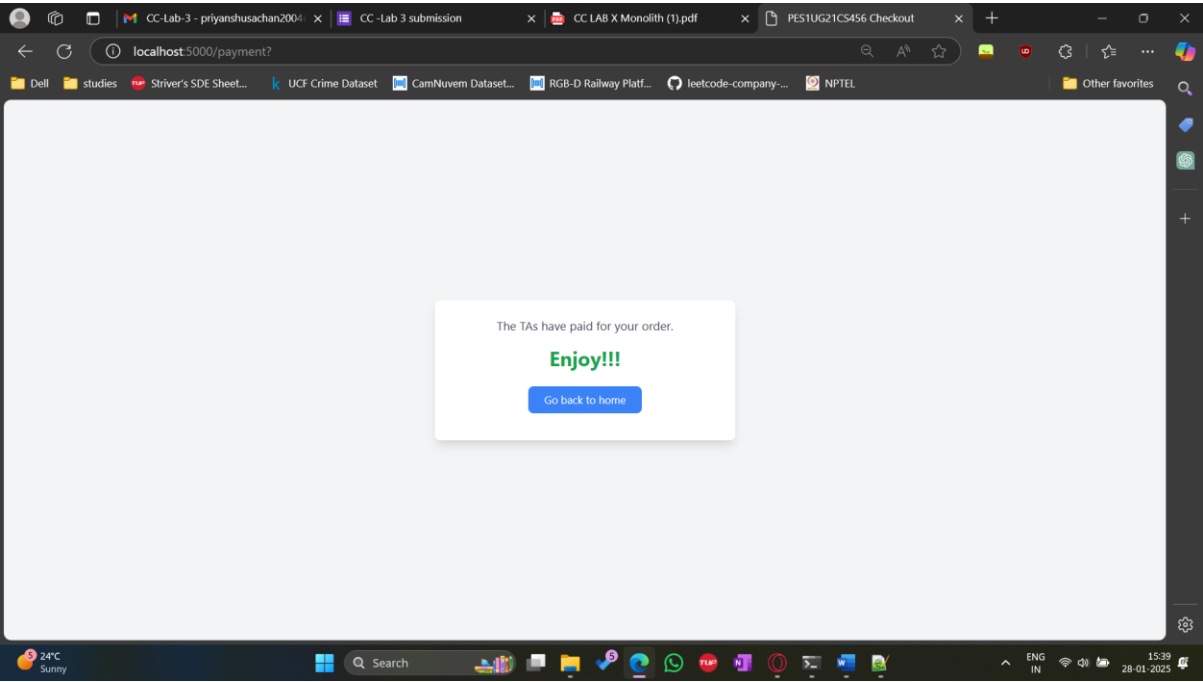
Name	Description	Quantity
Backpack	A durable and stylish backpack for daily use.	10
Wireless Mouse	A sleek and ergonomic wireless mouse with a long battery life.	20
Bluetooth Speaker	A portable Bluetooth speaker with high-quality sound and deep bass.	30
Laptop Stand	An adjustable laptop stand for better posture and cooling.	15
Notebook	A premium notebook with thick, high-quality paper.	50
Smartphone Case	A durable and stylish case for protecting your smartphone.	25
Power Bank	A high-capacity power bank with fast charging support.	20
Headphones	Over-ear headphones with noise cancellation and deep bass.	10
Gaming Keyboard	A mechanical gaming keyboard with RGB lighting.	10
USB-C Hub	A multi-port USB-C hub for all your connectivity needs.	25
Fitness Tracker	A sleek fitness tracker with heart rate monitoring.	20
Travel Mug	An insulated travel mug that keeps your drinks hot or cold.	30
Desk Organizer	A compact desk organizer for keeping your workspace tidy.	40
External Hard Drive	A portable external hard drive with 1TB of storage.	15
Wireless Charger	A fast wireless charger compatible with most devices.	30
Digital Camera	A compact digital camera with 4K video recording.	5
Electric Kettle	A fast-boiling electric kettle with auto shut-off.	20
Smart Watch	A stylish smartwatch with fitness and notification features.	10



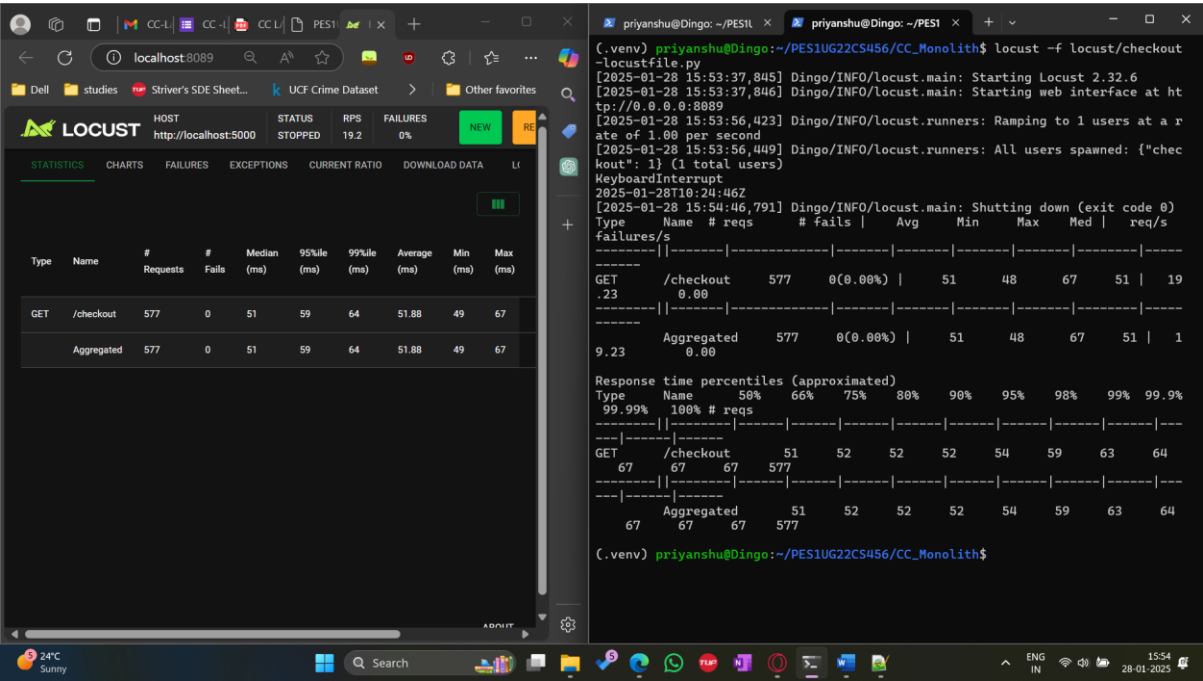
SS2:



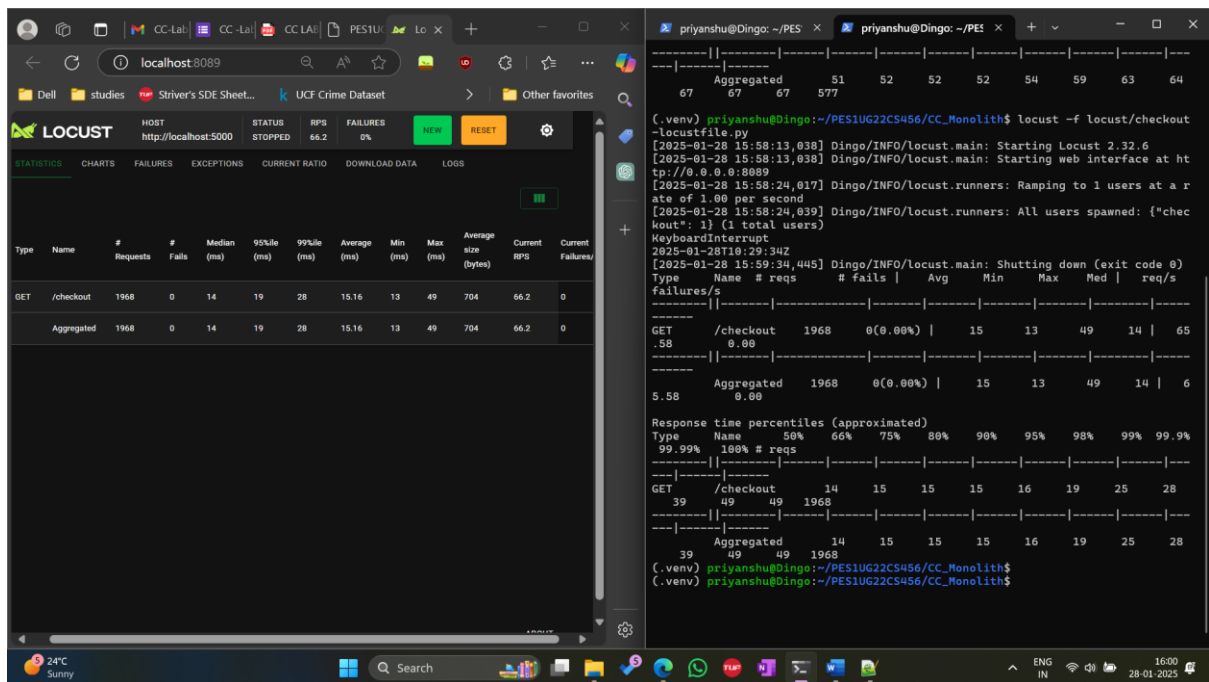
SS3:



SS4:



SS5:



The screenshot shows the Locust web interface on the left and a terminal window on the right. The Locust interface displays statistics for a GET request to /checkout. The terminal shows the execution of the Locust command and its output.

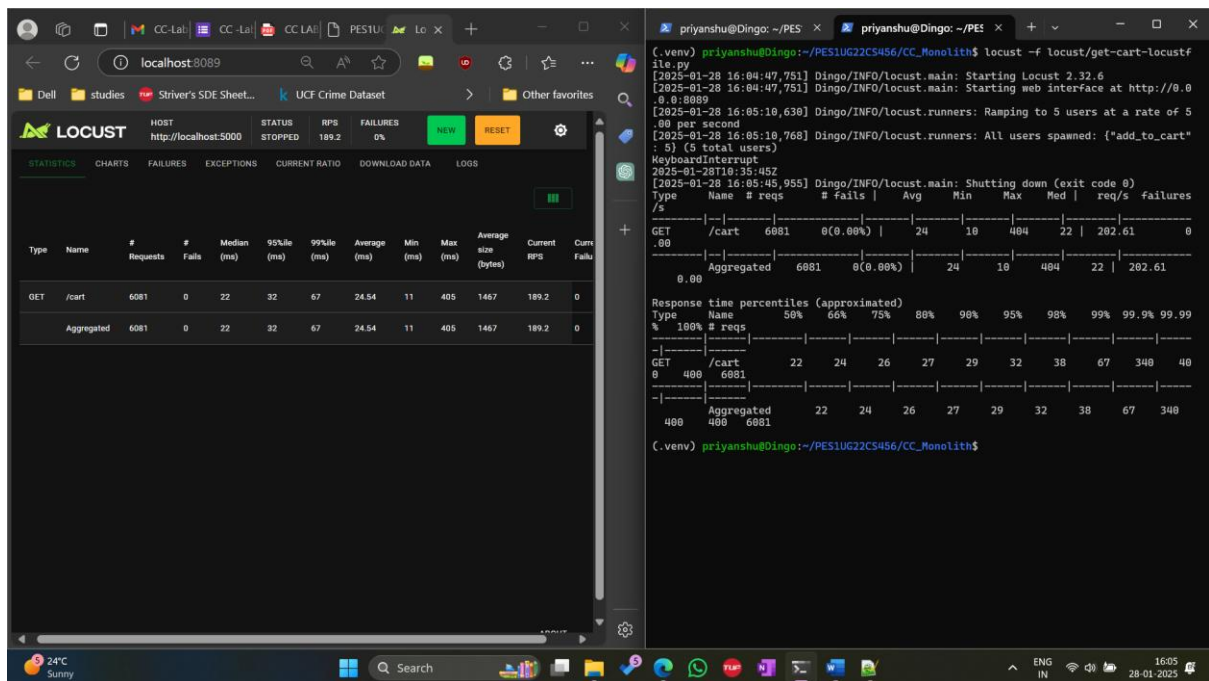
Locust Statistics:

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
GET	/checkout	1968	0	14	19	28	15.16	13	49	704	66.2	0
Aggregated		1968	0	14	19	28	15.16	13	49	704	66.2	0

Terminal Output:

```
(.venv) priyanshu@Dingo: ~/PES1UG22CS456/CC_Monolith$ locust -f locust/checkout -l locustfile.py
[2025-01-28 15:58:13,038] Dingo/INFO/locust.main: Starting Locust 2.32.6
[2025-01-28 15:58:13,038] Dingo/INFO/locust.main: Starting web interface at http://0.0.0.0:8089
[2025-01-28 15:58:24,017] Dingo/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2025-01-28 15:58:24,039] Dingo/INFO/locust.runners: All users spawned: {"checkout": 1} (1 total users)
KeyboardInterrupt
2025-01-28T10:29:34Z
[2025-01-28 15:59:34,445] Dingo/INFO/locust.main: Shutting down (exit code 0)
Type Name # reqs # fails | Avg Min Max Med | req/s failures/s
GET /checkout 1968 0(0.00%) | 15 13 49 14 | 65.58 0.00
Aggregated 1968 0(0.00%) | 15 13 49 14 | 65.58 0.00
Response time percentiles (approximated)
Type Name 50% 66% 75% 80% 90% 95% 98% 99% 99.9% 100% # reqs
GET /checkout 14 15 15 15 16 19 25 28 39 49 1968
Aggregated 14 15 15 15 16 19 25 28 39 49 1968
(.venv) priyanshu@Dingo: ~/PES1UG22CS456/CC_Monolith$
(.venv) priyanshu@Dingo: ~/PES1UG22CS456/CC_Monolith$
```

SS6:



The screenshot shows the Locust web interface on the left and a terminal window on the right. The Locust interface displays statistics for a GET request to /cart. The terminal shows the execution of the Locust command and its output.

Locust Statistics:

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
GET	/cart	6081	0	22	32	67	24.54	11	405	1467	189.2	0
Aggregated		6081	0	22	32	67	24.54	11	405	1467	189.2	0

Terminal Output:

```
(.venv) priyanshu@Dingo: ~/PES1UG22CS456/CC_Monolith$ locust -f locust/get-cart-locustfile.py
[2025-01-28 16:04:47,751] Dingo/INFO/locust.main: Starting Locust 2.32.6
[2025-01-28 16:04:47,751] Dingo/INFO/locust.main: Starting web interface at http://0.0.0.0:8089
[2025-01-28 16:05:10,630] Dingo/INFO/locust.runners: Ramping to 5 users at a rate of 5.00 per second
[2025-01-28 16:05:10,768] Dingo/INFO/locust.runners: All users spawned: {"add_to_cart": 5} (5 total users)
KeyboardInterrupt
2025-01-28T10:35:45Z
[2025-01-28 16:05:45,955] Dingo/INFO/locust.main: Shutting down (exit code 0)
Type Name # reqs # fails | Avg Min Max Med | req/s failures/s
GET /cart 6081 0(0.00%) | 24 10 404 22 | 202.61 0.00
Aggregated 6081 0(0.00%) | 24 10 404 22 | 202.61 0.00
Response time percentiles (approximated)
Type Name 50% 66% 75% 80% 90% 95% 98% 99% 99.9% 99.99% 100% # reqs
GET /cart 22 24 26 27 29 32 38 67 348 408 480 6081
Aggregated 22 24 26 27 29 32 38 67 348 408 480 6081
(.venv) priyanshu@Dingo: ~/PES1UG22CS456/CC_Monolith$
(.venv) priyanshu@Dingo: ~/PES1UG22CS456/CC_Monolith$
```

SS7:

The screenshot displays a Windows desktop environment. On the left, the Locust web interface is open in a browser at localhost:8089. The interface shows the 'STATISTICS' tab with a table of performance metrics for a GET request to /cart. 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. The data shows 6246 requests with 0 failures and an average response time of 23.87ms.

Type	Name	# Requests	# Fails	Median (ms)	95%ile (ms)	99%ile (ms)	Average (ms)	Min (ms)	Max (ms)	Average size (bytes)	Current RPS	Current Fail
GET	/cart	6246	0	22	32	55	23.87	9	415	1467	200.8	0
Aggregated		6246	0	22	32	55	23.87	9	415	1467	200.8	0

On the right, a terminal window shows the execution of the Locust command: `locust -f locust/get-cart-locustfile.py`. The terminal output includes logs for starting the Locust main process, starting the web interface, and spawning 5 users. It also shows a keyboard interrupt and the shutdown process. Below the logs, the terminal displays the same performance statistics table as the web interface, followed by response time percentiles (approximated) for the GET /cart endpoint.

```
Response time percentiles (approximated)
Type Name # reqs 50% 66% 75% 80% 90% 95% 98% 99% 99.9% 99.99%
GET /cart 6246 22 23 25 26 28 32 39 55 350 42
Aggregated 6246 22 23 25 26 28 32 39 55 350
```