

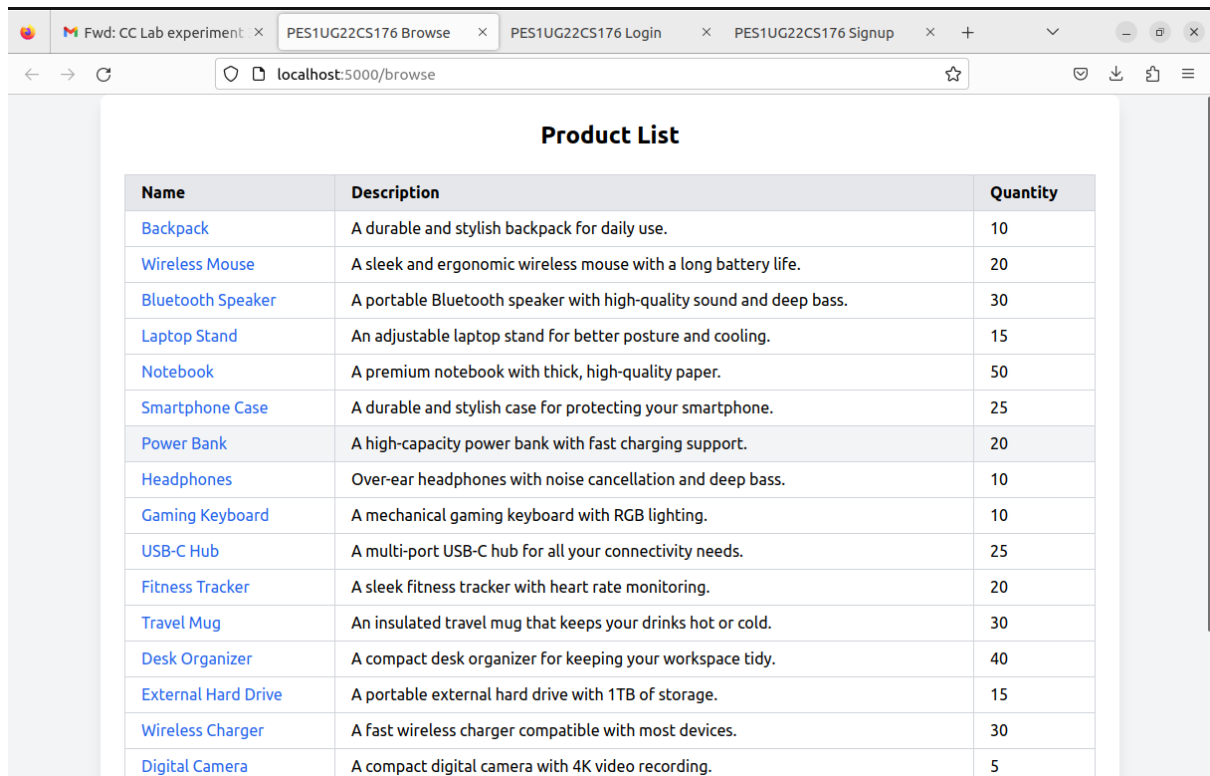
CLOUD COMPUTING LAB: 03

NAME : DEKSHITH.M

SRN : PES1UG22CS176

SECTION : C

SS1:



The screenshot shows a web browser window with multiple tabs. The active tab is titled 'PES1UG22CS176 Browse'. The address bar shows 'localhost:5000/browse'. The main content area displays a table titled 'Product List' with three columns: Name, Description, and Quantity. The table contains 15 rows of product information.

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

SS2:



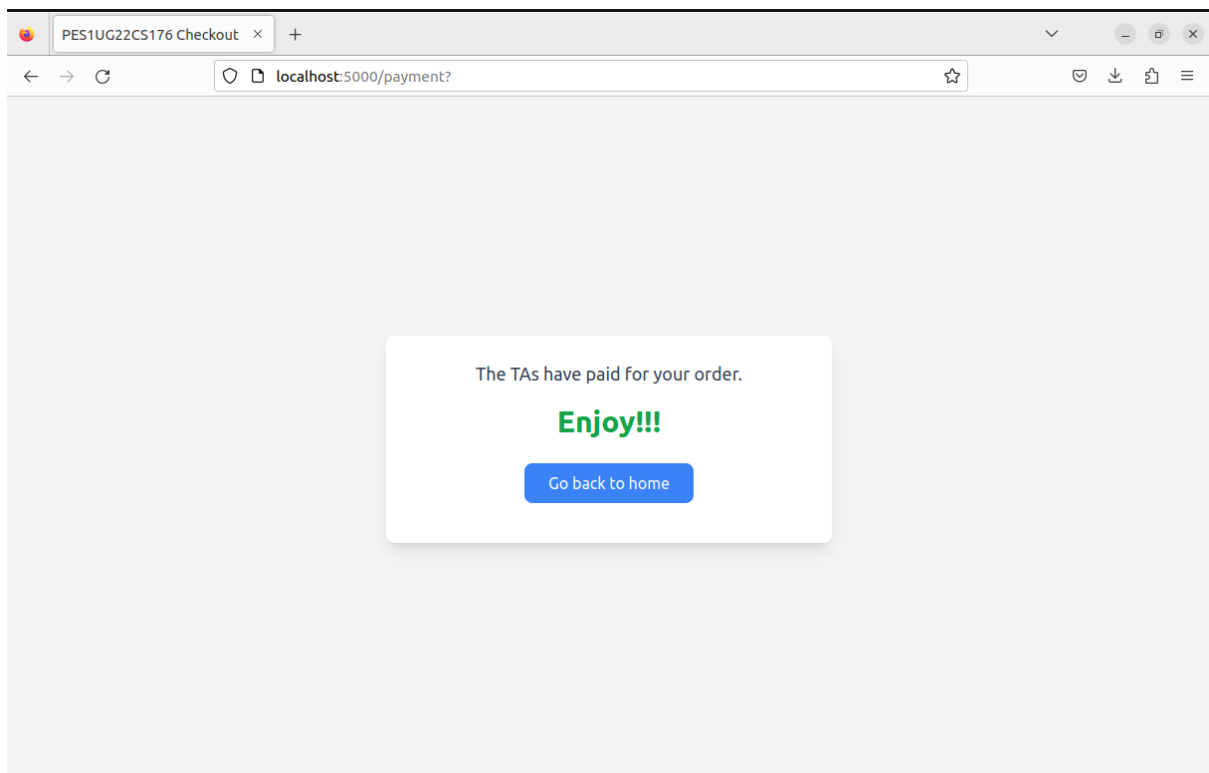
## Unable to connect

Firefox can't establish a connection to the server at localhost:5000.

- The site could be temporarily unavailable or too busy. Try again in a few moments.
- If you are unable to load any pages, check your computer's network connection.
- If your computer or network is protected by a firewall or proxy, make sure that Firefox is permitted to access the web.

Try Again

SS3:



SS4:

Locust

localhost:8089

HOST: http://localhost:5000 | STATUS: STOPPED | RPS: 14.1 | FAILURES: 0% | NEW | RESET

STATISTICS | CHARTS | FAILURES | EXCEPTIONS | CURRENT RATIO | DOWNLOAD DATA | LOGS

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/s
GET	/checkout	413	0	73	79	81	72.45	55	84	700	14.1	0
Aggregated		413	0	73	79	81	72.45	55	84	700	14.1	0

```
dekshith@dekshith: ~/PE51UG22CS176/CC_Monolith
dekshith@dekshith:~/PE51UG22CS176/CC_Monolith$ source ./venv/bin/activate
(.venv) dekshith@dekshith:~/PE51UG22CS176/CC_Monolith$ locust -f locust/checkout-locustf
ile.py
[2025-01-28 15:24:54,347] dekshith/INFO/locust.main: Starting Locust 2.32.6
[2025-01-28 15:24:54,347] dekshith/INFO/locust.main: Starting web interface at http://0.
0.0.0:8089
[2025-01-28 15:27:22,139] dekshith/INFO/locust.runners: Ramping to 1 users at a rate of
1.00 per second
[2025-01-28 15:27:22,160] dekshith/INFO/locust.runners: All users spawned: {"checkout":
1} (1 total users)
KeyboardInterrupt
[2025-01-28 15:29:59,142]
[2025-01-28 15:29:59,142] dekshith/INFO/locust.main: Shutting down (exit code 0)
Type Name # reqs # fails | Avg Min Max Med | req/s failures/s
-----|-----
GET /checkout 413 0(0.00%) | 72 54 84 73 | 13.77
0.00
Aggregated 413 0(0.00%) | 72 54 84 73 | 13.77
0.00
Response time percentiles (approximated)
Type Name 50% 60% 75% 80% 90% 95% 98% 99% 99.9% 99.99%
-----|-----
GET /checkout 73 74 74 75 77 79 81 81 84
84 84 413
Aggregated 73 74 74 75 77 79 81 81 84
84 84 413
(.venv) dekshith@dekshith:~/PE51UG22CS176/CC_Monolith$
```

SS5:

Locust

localhost:8089

HOST: http://localhost:5000 | STATUS: STOPPED | RPS: 42.6 | FAILURES: 0% | NEW | RESET

STATISTICS | CHARTS | FAILURES | EXCEPTIONS | CURRENT RATIO | DOWNLOAD DATA | LOGS

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/s
GET	/checkout	1230	0	24	33	42	24.28	14	52	704	42.6	0
Aggregated		1230	0	24	33	42	24.28	14	52	704	42.6	0

```
dekshith@dekshith:~/PE51UG22CS176/CC_Monolith
dekshith@dekshith:~/PE51UG22CS176/CC_Monolith$ locust -f locust/checkout-locustf
ile.py
[2025-01-28 15:43:03,628] dekshith/INFO/locust.main: Starting Locust 2.32.6
[2025-01-28 15:43:03,631] dekshith/INFO/locust.main: Starting web interface at http://0.
0.0.0:8089
[2025-01-28 15:43:13,182] dekshith/INFO/locust.runners: Ramping to 1 users at a rate of
1.00 per second
[2025-01-28 15:43:13,205] dekshith/INFO/locust.runners: All users spawned: {"checkout":
1} (1 total users)
KeyboardInterrupt
[2025-01-28 15:43:58,400] dekshith/INFO/locust.main: Shutting down (exit code 0)
Type Name # reqs # fails | Avg Min Max Med | req/s failures/s
-----|-----
GET /checkout 1230 0(0.00%) | 24 13 51 24 | 40.98
0.00
Aggregated 1230 0(0.00%) | 24 13 51 24 | 40.98
0.00
Response time percentiles (approximated)
Type Name 50% 60% 75% 80% 90% 95% 98% 99% 99.9% 99.99%
-----|-----
GET /checkout 24 26 27 28 30 33 38 42 52
52 52 1230
Aggregated 24 26 27 28 30 33 38 42 52
52 52 1230
(.venv) dekshith@dekshith:~/PE51UG22CS176/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, showing 7383 requests, 0 failures, and an average response time of 4ms. The terminal window shows the command to start Locust and the resulting output, including the status of the web interface and the response time percentiles.

**Locust Web Interface 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/s
GET	/cart	7383	0	3	8	14	4	2	32	1467	292.5	0
Aggregated		7383	0	3	8	14	4	2	32	1467	292.5	0

**Terminal Output:**

```
dekshith@dekshith: ~/PES1UG22CS176/CC_Monolith
dekshith@dekshith:~/PES1UG22CS176/CC_Monolith$ locust -f locust/get-cart-locustf
lie.py
[2025-01-28 15:51:19,140] dekshith/INFO/locust.main: Starting Locust 2.32.6
[2025-01-28 15:51:19,140] dekshith/INFO/locust.main: Starting web interface at http://0.0.0.0:8089
[2025-01-28 15:51:32,818] dekshith/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2025-01-28 15:51:32,846] dekshith/INFO/locust.runners: All users spawned: {"add_to_cart": 1} (1 total users)
KeyboardInterrupt
[2025-01-28 15:52:09,606] dekshith/INFO/locust.main: Shutting down (exit code 0)
Type Name # reqs # fails | Avg Min Max Med | req/s failures/s
GET /cart 7383 0(0.00%) | 3 1 32 3 | 245.98 0.0
Aggregated 7383 0(0.00%) | 3 1 32 3 | 245.98 0.00
Response time percentiles (approximated)
Type Name 50% 66% 75% 80% 90% 95% 98% 99% 99.9% 99.99%
GET /cart 3 4 4 4 6 8 11 14 23 32
Aggregated 3 4 4 4 6 8 11 14 23 32
dekshith@dekshith:~/PES1UG22CS176/CC_Monolith$
```

SS7:

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, showing 8478 requests, 0 failures, and an average response time of 4ms. The terminal window shows the command to start Locust and the resulting output, including the status of the web interface and the response time percentiles.

**Locust Web Interface 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/s
GET	/cart	8478	0	3	5	8	3.48	2	27	1467	294.5	0
Aggregated		8478	0	3	5	8	3.48	2	27	1467	294.5	0

**Terminal Output:**

```
dekshith@dekshith: ~/PES1UG22CS176/CC_Monolith
dekshith@dekshith:~/PES1UG22CS176/CC_Monolith$ locust -f locust/get-cart-locustf
lie.py
[2025-01-28 15:58:06,321] dekshith/INFO/locust.main: Starting Locust 2.32.6
[2025-01-28 15:58:06,322] dekshith/INFO/locust.main: Starting web interface at http://0.0.0.0:8089
[2025-01-28 15:58:15,707] dekshith/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2025-01-28 15:58:15,738] dekshith/INFO/locust.runners: All users spawned: {"add_to_cart": 1} (1 total users)
KeyboardInterrupt
[2025-01-28 15:58:51,869] dekshith/INFO/locust.main: Shutting down (exit code 0)
Type Name # reqs # fails | Avg Min Max Med | req/s failures/s
GET /cart 8478 0(0.00%) | 3 2 27 3 | 282.41 0.0
Aggregated 8478 0(0.00%) | 3 2 27 3 | 282.41 0.00
Response time percentiles (approximated)
Type Name 50% 66% 75% 80% 90% 95% 98% 99% 99.9% 99.99%
GET /cart 3 3 4 4 4 5 7 8 14 27
Aggregated 3 3 4 4 4 5 7 8 14 27
dekshith@dekshith:~/PES1UG22CS176/CC_Monolith$
```

SS8:

Locust

localhost:8089

HOST: http://localhost:5000

STATUS: STOPPED

RPS: 458.1

FAILURES: 0%

NEW

RESET

STATISTICS

CHARTS

FAILURES

EXCEPTIONS

CURRENT RATIO

DOWNLOAD DATA

LOGS

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/s
GET	/browse	12987	0	2	4	8	2.25	1	33	9533	458.1	0
Aggregated		12987	0	2	4	8	2.25	1	33	9533	458.1	0

ABOUT

```
deekshith@deekshith: ~/PES1UG22CS176/CC_Monolith
Could not find 'locust/products-locustfile.py'. Ensure your locustfile ends with '.py' or is a ((((.venv) deekshith@deekshith: ~/PES1UG22CS176/CC_Monolith$ locust -f locust/p
products-locustfile.py
Could not find 'locust/products-locustfile.py'. Ensure your locustfile ends with '.py'
or is a directory with locustfiles. See --help for available options.
(.venv) deekshith@deekshith: ~/PES1UG22CS176/CC_Monolith$ locust -f locust/browse-locustf
ile.py
bash: syntax error near unexpected token `)'
(.venv) deekshith@deekshith: ~/PES1UG22CS176/CC_Monolith$ locust -f locust/browse-locustf
ile.py
[2025-01-28 16:10:15,041] deekshith/INFO/locust.main: Starting Locust 2.32.6
[2025-01-28 16:10:15,041] deekshith/INFO/locust.main: Starting web interface at http://
0.0.0.0:8089
[2025-01-28 16:10:29,147] deekshith/INFO/locust.runners: Ramping to 1 users at a rate o
f 1.00 per second
[2025-01-28 16:10:29,148] deekshith/INFO/locust.runners: All users spawned: {"browse":
1} (1 total users)
KeyboardInterrupt
[2025-01-28 16:11:20,196] deekshith/INFO/locust.main: Shutting down (exit code 0)
Type Name # reqs # fails | Avg Min Max Med | req/s failures
-----
GET /browse 12987 0(0.00%) | 2 1 32 2 | 432.97
0.00
Aggregated 12987 0(0.00%) | 2 1 32 2 | 432.97
0.00
Response time percentiles (approximated)
Type Name 50% 66% 75% 80% 90% 95% 98% 99% 99.9% 99.99%
% 100% # reqs
-----
GET /browse 2 2 2 2 3 4 6 8 17
25 33 12987
Aggregated 2 2 2 2 3 4 6 8 17
25 33 12987
(.venv) deekshith@deekshith: ~/PES1UG22CS176/CC_Monolith$
```

SS9:

Locust

localhost:8089

HOST: http://localhost:5000

STATUS: STOPPED

RPS: 488

FAILURES: 0%

NEW

RESET

STATISTICS

CHARTS

FAILURES

EXCEPTIONS

CURRENT RATIO

DOWNLOAD DATA

LOGS

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/s
GET	/browse	14236	0	2	3	5	2.05	1	20	9533	488	0
Aggregated		14236	0	2	3	5	2.05	1	20	9533	488	0

ABOUT

```
deekshith@deekshith: ~/PES1UG22CS176/CC_Monolith
(.venv) deekshith@deekshith: ~/PES1UG22CS176/CC_Monolith$ locust -f locust/browse-locustf
ile.py
[2025-01-28 16:20:09,204] deekshith/INFO/locust.main: Starting Locust 2.32.6
[2025-01-28 16:20:09,206] deekshith/INFO/locust.main: Starting web interface at http://
0.0.0.0:8089
[2025-01-28 16:20:21,347] deekshith/INFO/locust.runners: Ramping to 1 users at a rate o
f 1.00 per second
[2025-01-28 16:20:21,348] deekshith/INFO/locust.runners: All users spawned: {"browse":
1} (1 total users)
KeyboardInterrupt
[2025-01-28 16:20:59,592] deekshith/INFO/locust.main: Shutting down (exit code 0)
Type Name # reqs # fails | Avg Min Max Med | req/s failures
-----
GET /browse 14236 0(0.00%) | 2 1 19 2 | 474.58
0.00
Aggregated 14236 0(0.00%) | 2 1 19 2 | 474.58
0.00
Response time percentiles (approximated)
Type Name 50% 66% 75% 80% 90% 95% 98% 99% 99.9% 99.99%
% 100% # reqs
-----
GET /browse 2 2 2 2 3 3 4 5 10
18 20 14236
Aggregated 2 2 2 2 3 3 4 5 10
18 20 14236
(.venv) deekshith@deekshith: ~/PES1UG22CS176/CC_Monolith$
```