

CLOUD COMPUTING LAB 3

SUBMITTED BY,

NISHCHITH,

PES2UH22CS370,

F SEC

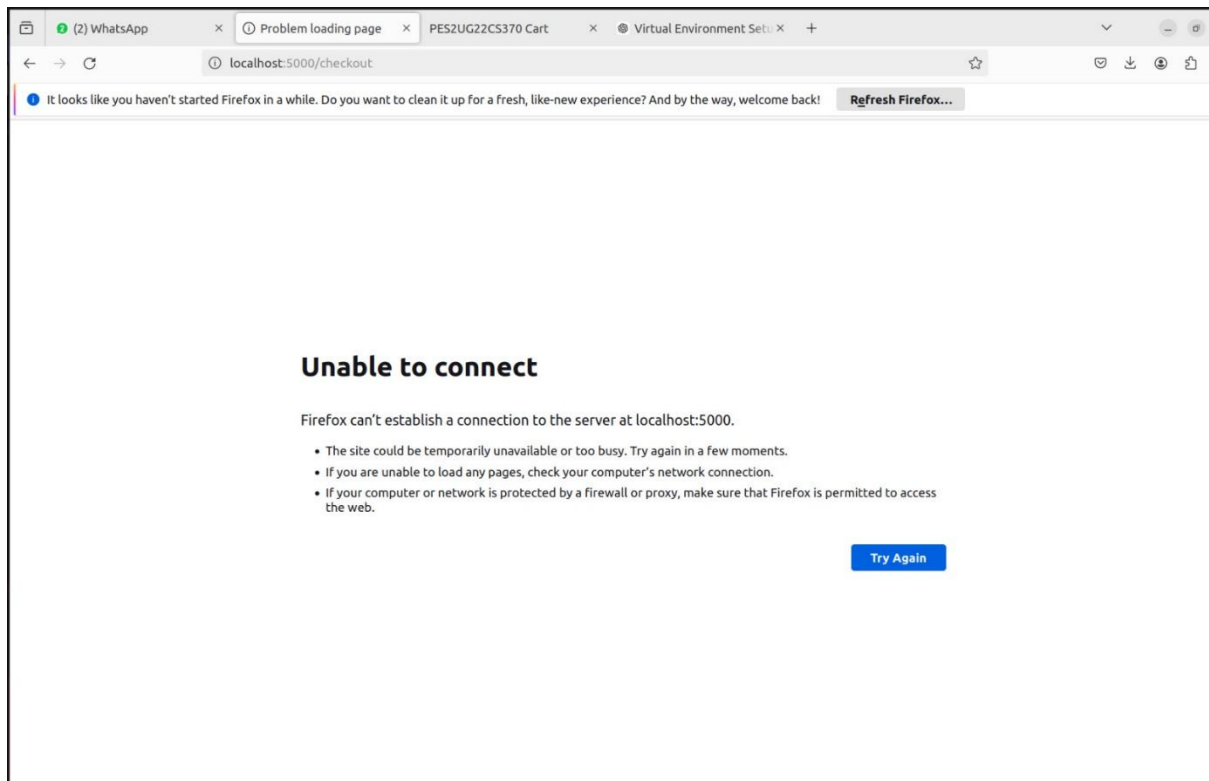
SS1.

PES2UG22CS370 Browse

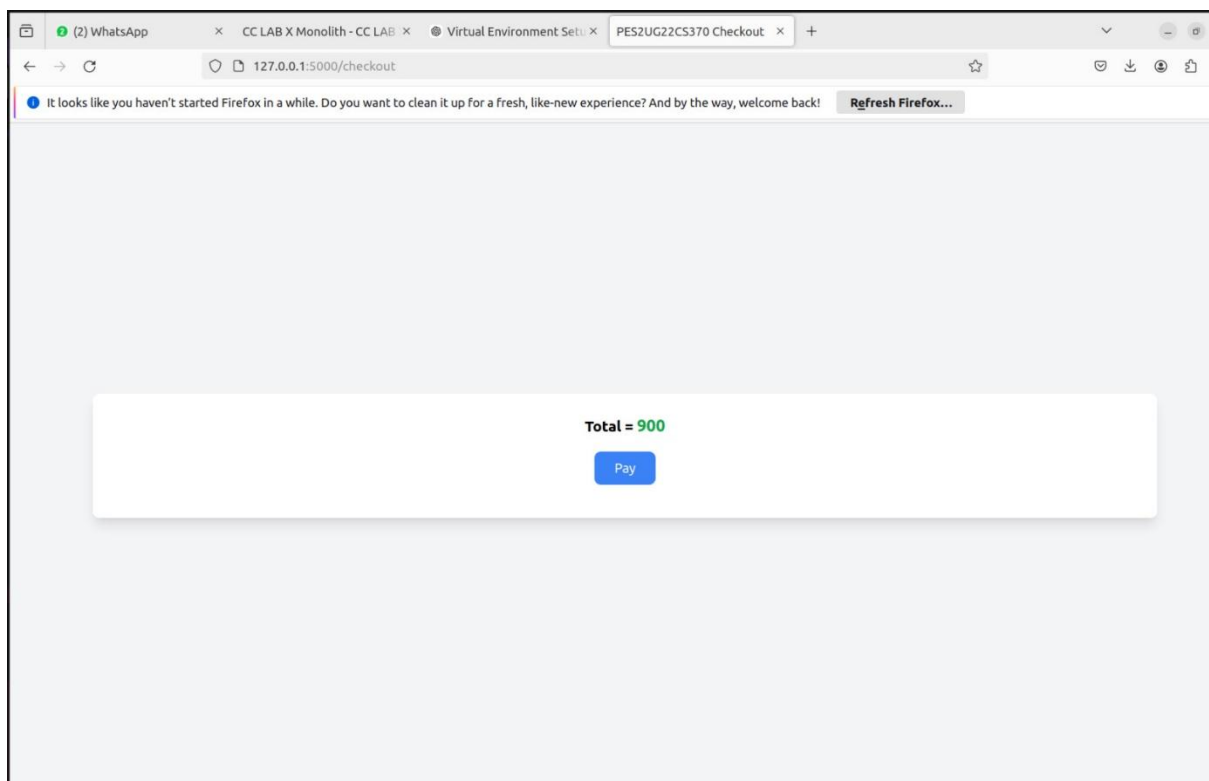
127.0.0.1:5000/browse

Product List		
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
LED Desk Lamp	A modern LED desk lamp with adjustable brightness.	35
Portable Projector	A mini portable projector with HD resolution.	8

SS2.



SS3.



The screenshot displays the Locust web interface at `localhost:8089`. The interface has a green header with the Locust logo and navigation links: STATISTICS, CHARTS, FAILURES, EXCEPTIONS, CURRENT RATIO, DOWNLOAD DATA, and LOGS. A status bar shows the host as `http://localhost:5000`, status as `RUNNING`, 1 user, 7.4 RPS, and 0% failures. Buttons for EDIT, STOP, and RESET are available.

The main content area shows a table of statistics for the `GET /checkout` endpoint. The table has 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 data shows 388 requests, 0 fails, and a median response time of 140ms.

An inset terminal window shows the command `root@PES2UG22CS370: ~/CC_Monolith/locust` and the output of the Locust test. The output includes the command `locust -f INFO/locust.runners: All users spawned: ("checkout": 1) (1 total users)`, a keyboard interrupt, and the shutdown message `locust -f INFO/locust.main: Shutting down (exit code 0)`. The terminal also displays a table of statistics for the `GET /checkout` endpoint, similar to the one in the web interface.

The screenshot displays the Locust web interface at localhost:8089. The interface has a green header with the Locust logo and navigation tabs: STATISTICS, CHARTS, FAILURES, EXCEPTIONS, CURRENT RATIO, DOWNLOAD DATA, and LOGS. The main content area shows a table of statistics for a GET request to /checkout. The table has 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 data shows 154 requests, 0 fails, and a median response time of 51ms. A green button labeled 'Refresh Firefox...' is visible in the top right corner of the browser window.

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	154	0	51	70	79	52.85	39	103	704	16.43	0
	Aggregated	154	0	51	70	79						

The terminal window shows the command `locust -f ./locust.py` and the output of the test. The output includes a table of statistics for the GET request to /checkout, showing 182 requests, 0 fails, and a median response time of 51ms. The terminal also shows the command `locust -f ./locust.py` and the output of the test.

SS6:

[illegible]

AFTER:

SS7:

The screenshot displays the Locust web interface in a browser window. The interface has a green header with the Locust logo and navigation tabs: STATISTICS, CHARTS, FAILURES, EXCEPTIONS, CURRENT RATIO, DOWNLOAD DATA, and LOGS. The main content area shows a table of statistics for a GET request to /cart. The table has 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 data shows 13139 requests, 0 fails, and a median response time of 14ms. Below the table is a green button with three vertical bars. In the bottom right corner, a terminal window is open, showing the command 'locust -f /CC_Monolith/locust' and the output of the shutdown process, including the message 'PES2UG22CS370/INFO/locust.main: Shutting down (exit code 0)' and a summary of the test results.

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	13139	0	14	24	34	14.91	4	138	1467	68.7	0
Aggregated		13139	0	14	24	34	14.91	4	138	1467	68.7	0

```
root@PES2UG22CS370: ~/CC_Monolith/locust
root@PES2UG22CS370: ~/CC_Monolith/locust
[2025-01-23 16:56:39,795] PES2UG22CS370/INFO/locust.main: Shutting down (exit code 0)
Type Name # reqs # fails | Avg Min Max Med | req/s fa
-----|-----|-----|-----|-----|-----|-----|-----|-----|
GET /cart 13385 0(0.00%) | 14 3 138 14 | 66.42
-----|-----|-----|-----|-----|-----|-----|-----|
Aggregated 13385 0(0.00%) | 14 3 138 14 | 66.42
-----|-----|-----|-----|-----|-----|-----|-----|
Response time percentiles (approximated)
Type Name 50% 66% 75% 80% 90% 95% 98% 99% 99.9% 99.99%
-----|-----|-----|-----|-----|-----|-----|-----|-----|
GET /cart 14 15 16 17 20 24 29 34 76
-----|-----|-----|-----|-----|-----|-----|-----|
120 140 13385
```

BEFORE:
SS8

The screenshot displays the Locust web interface at localhost:8089. The interface has a green header with the Locust logo and navigation tabs: STATISTICS, CHARTS, FAILURES, EXCEPTIONS, CURRENT RATIO, DOWNLOAD DATA, and LOGS. The main content area shows a table of statistics for the GET /cart endpoint. The table has 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 data shows 13139 requests, 0 fails, and a median response time of 14 ms. Below the table is a green button with a play icon. In the bottom right corner, there is a terminal window showing the command prompt for root@PES2UG22CS370. The terminal output indicates that the Locust process is shutting down, displaying the same statistics table as the web interface.

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	13139	0	14	24	34	14.91	4	138	1467	68.7	0
Aggregated		13139	0	14	24	34	14.91	4	138	1467	68.7	0

```

root@PES2UG22CS370: ~/CC_Monolith/locust
root@PES2UG22CS370: ~/CC_Monolith
root@PES2UG22CS370: ~/CC_Monolith/locust
[2025-01-23 16:56:39,795] PES2UG22CS370/INFO/locust.main: Shutting down (exit code 0)
Type Name # reqs # fails | Avg Min Max Med | req/s fa
-----|-----|-----|-----|-----|-----|-----|-----|-----|
GET /cart 13385 0(0.00%) | 14 3 138 14 | 66.42
-----|-----|-----|-----|-----|-----|-----|-----|
Aggregated 13385 0(0.00%) | 14 3 138 14 | 66.42
-----|-----|-----|-----|-----|-----|-----|-----|
Response time percentiles (approximated)
Type Name 50% 66% 75% 80% 90% 95% 98% 99% 99.9% 99.99%
GET /cart 14 15 16 17 20 24 29 34 76
120 140 13385

```

AFTER:

The screenshot shows the Locust web interface in a browser. The top navigation bar is green with the Locust logo and several tabs: STATISTICS (active), CHARTS, FAILURES, EXCEPTIONS, CURRENT RATIO, DOWNLOAD DATA, and LOGS. A green header bar displays the following metrics: HOST (http://localhost:5000), STATUS (RUNNING), USERS (1), RPS (70.67), FAILURES (0%), and three buttons: EDIT, STOP, and RESET. A message at the top says: "It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!" with a "Refresh Firefox..." button. Below the navigation bar, a table displays request 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	/browse	424	0	8	16	28	9.33	5	62	9534	70.67	0
	Aggregated	424	0	8	16	28	9.33	5	62	9534	70.67	0

```

root@PE52UG22CS370: ~/CC_Monolith/locust#
root@PE52UG22CS370: ~/CC_Monolith x root@PE52UG22CS370: ~/CC_Monolith/L... x
GET      /browse      449      0(0.00%) |      9      4      81      8 | 101.31
-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
31      Aggregated  449      0(0.00%) |      9      4      81      8 | 101.
      0.00

Response time percentiles (approximated)
Type      Name      50%      66%      75%      80%      90%      95%      98%      99%      99.9%  9
9.99%     /browse      8      9      10      11      14      17      20      33      8
-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
GET      /browse      8      9      10      11      14      17      20      33      8
2      82      82      449
-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
82      Aggregated  8      9      10      11      14      17      20      33
      82      82      449

(.venv) root@PE52UG22CS370: ~/CC_Monolith/locust#

```