Cloud Computing Lab Monolith Lab – 2

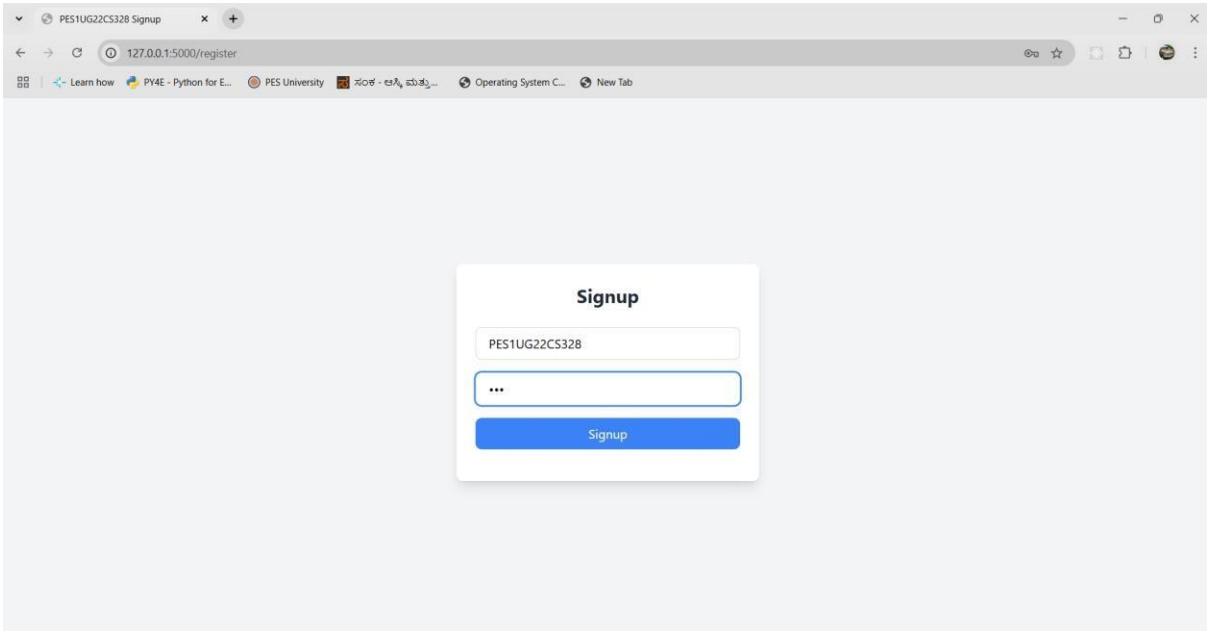
Name: Manas R

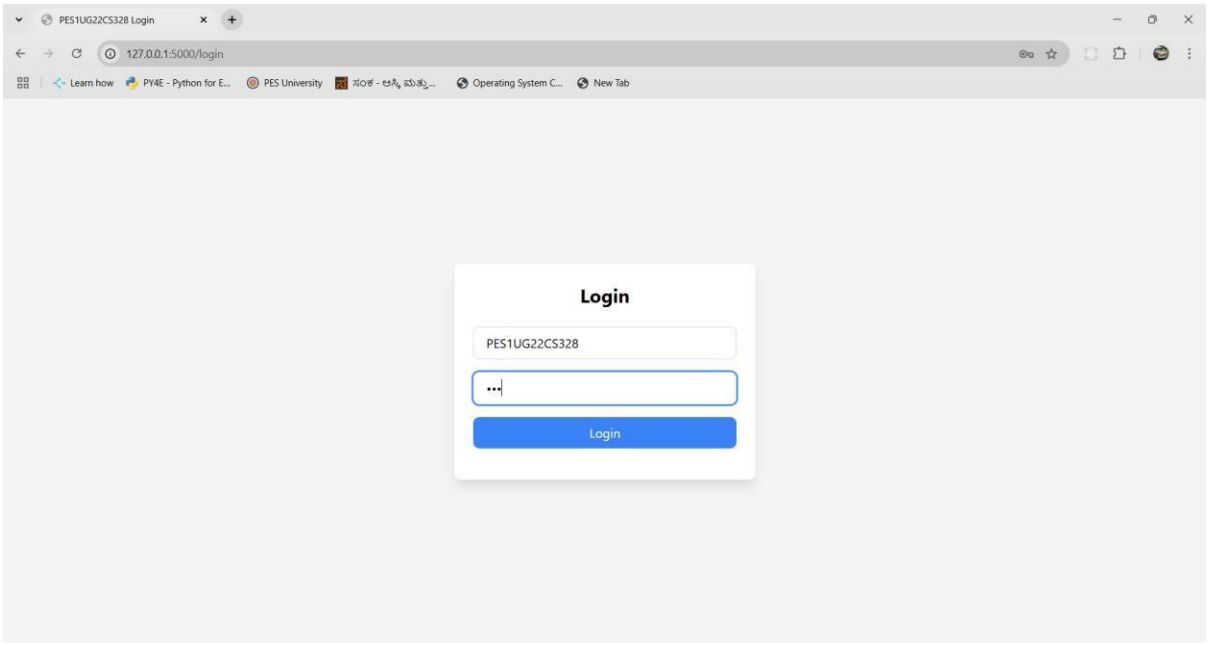
SRN: PES1UG22CS328

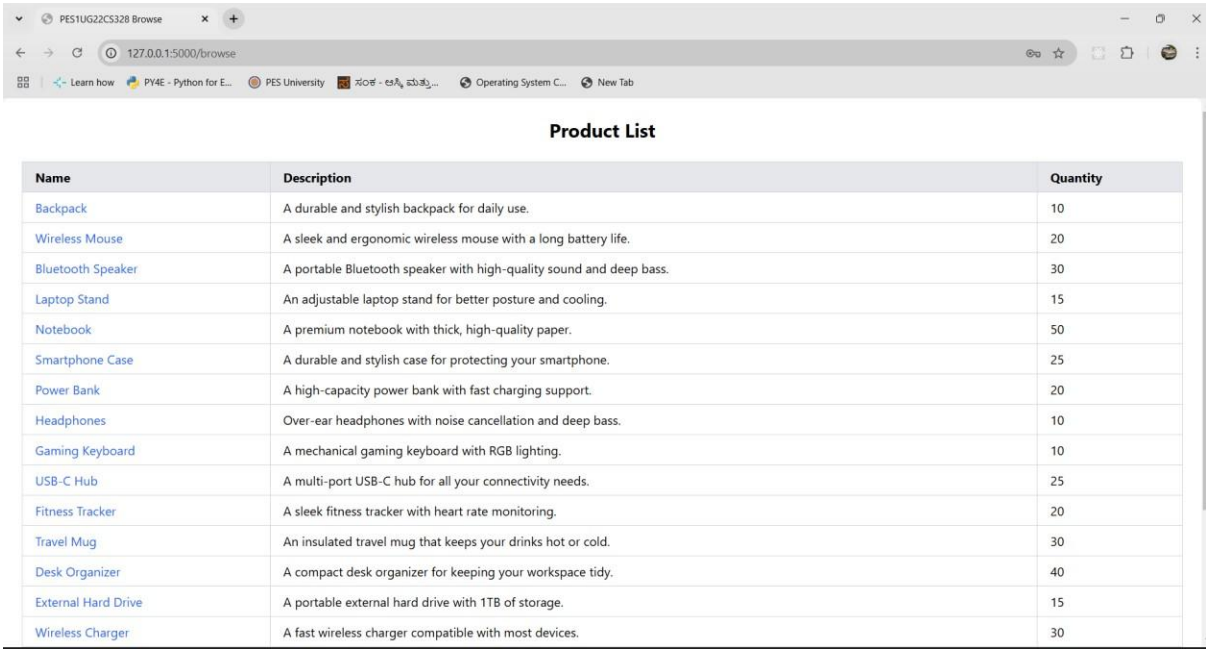
Section: F

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


PES1UG22CS328 Signup
127.0.0.1:5000/register
Learn how
PY4E - Python for E...
PES University
Operating System C...
New Tab
Signup
PES1UG22CS328
Signup


PES1UG22CS328 Login
127.0.0.1:5000/login
Learn how
PY4E - Python for E...
PES University
Operating System C...
New Tab
Login
PES1UG22CS328
Login



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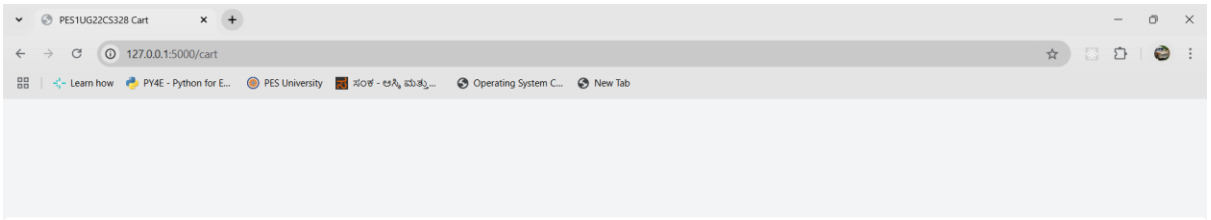
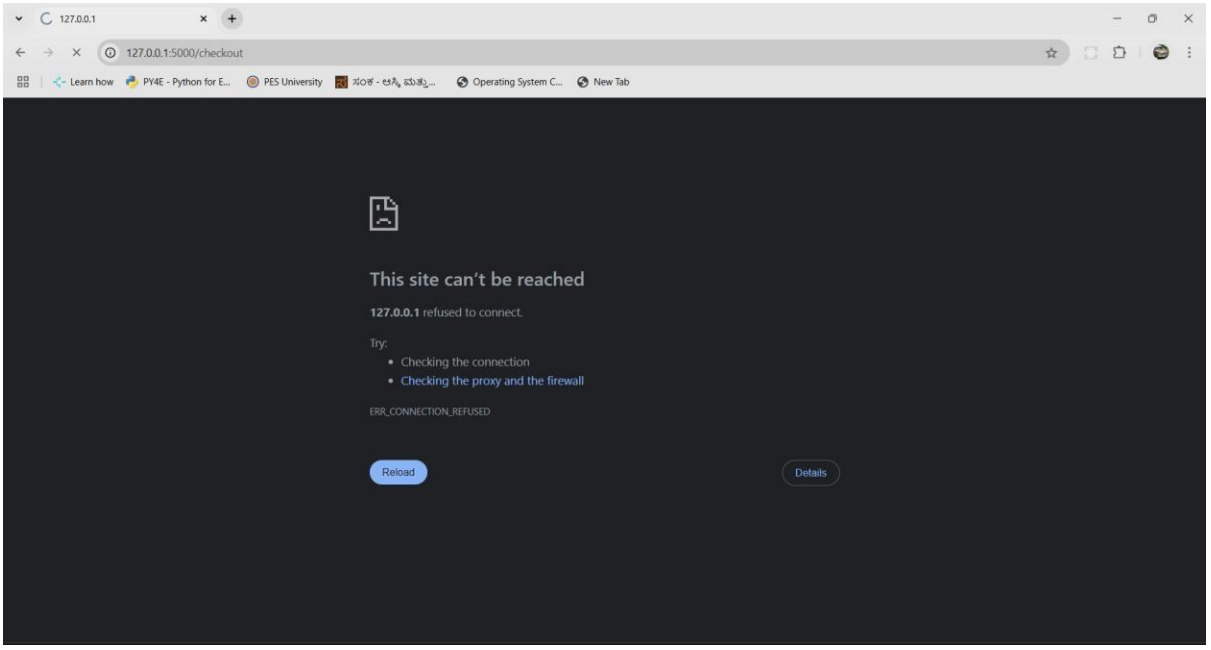
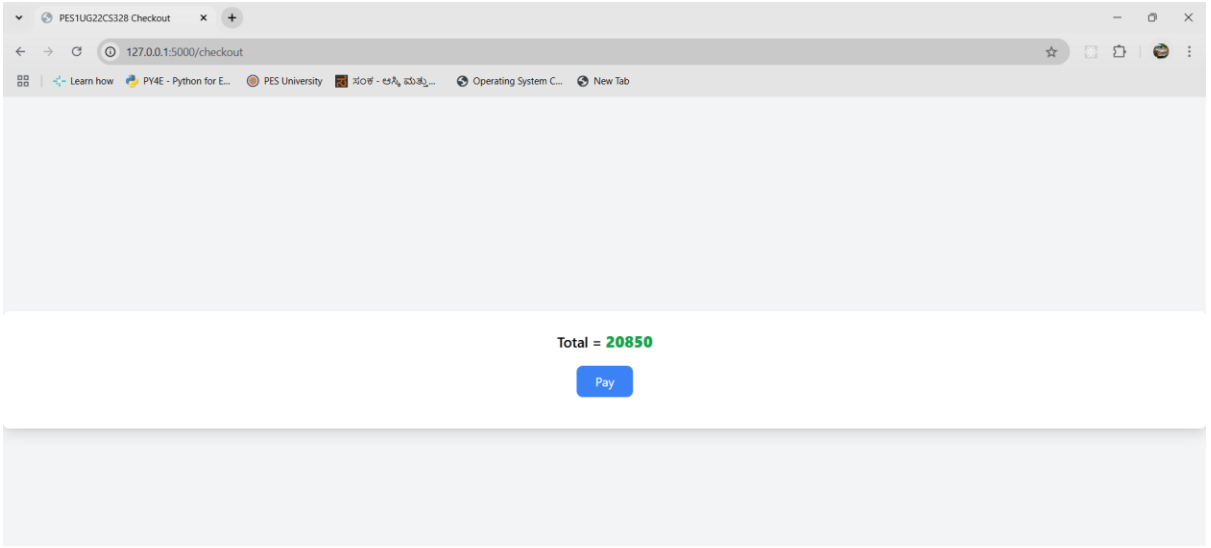


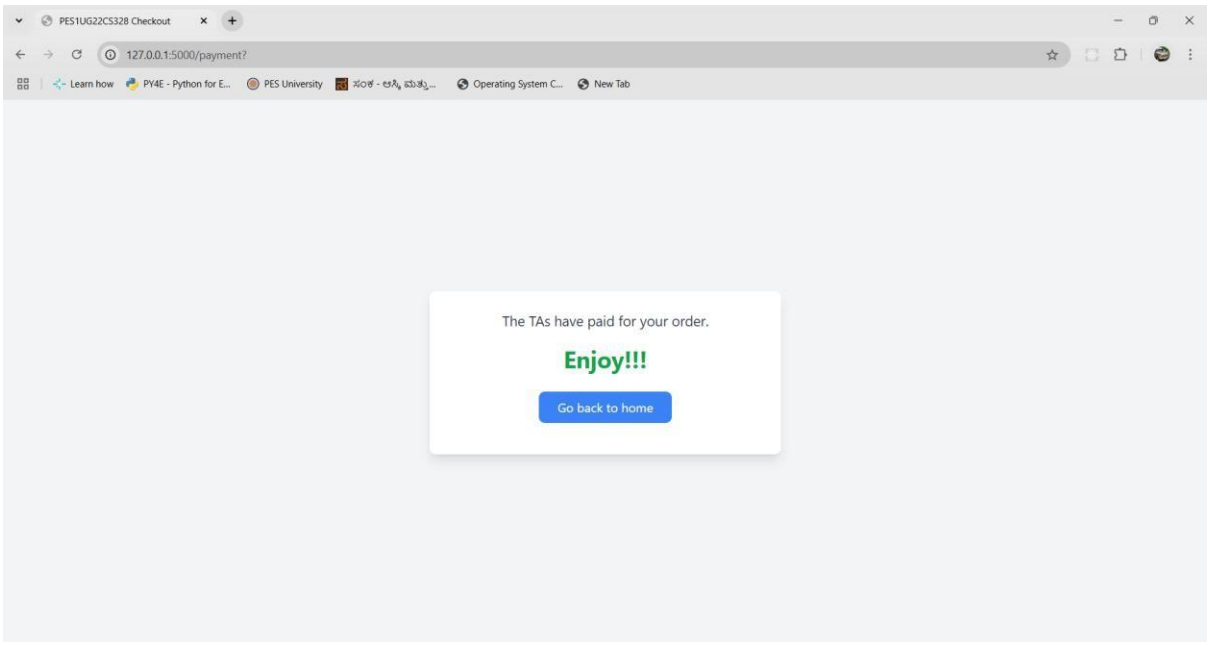
Cart

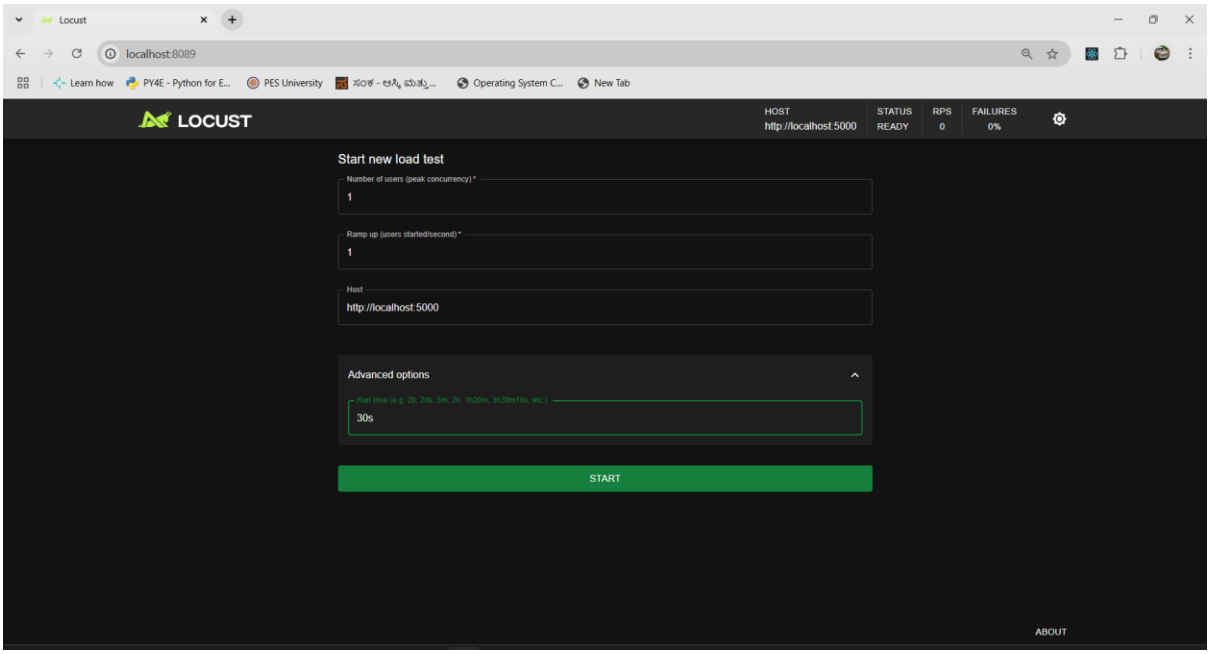
Product	Price	
Backpack	800.0	Remove
Notebook	50.0	Remove
Digital Camera	20000.0	Remove

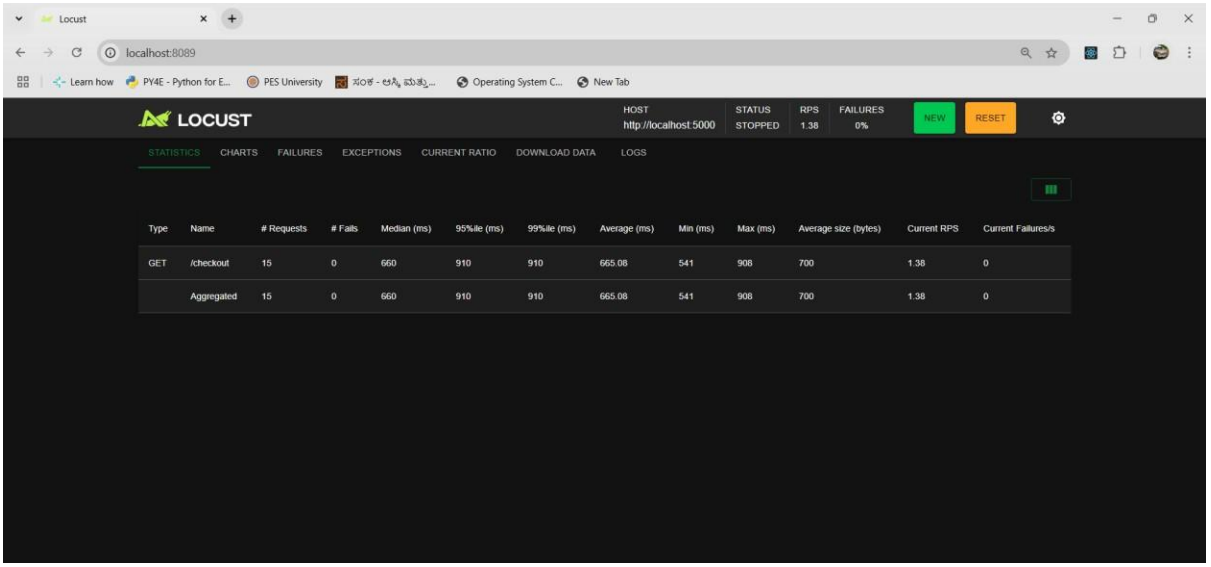
Checkout | Clear Cart | Refresh | Back to Products

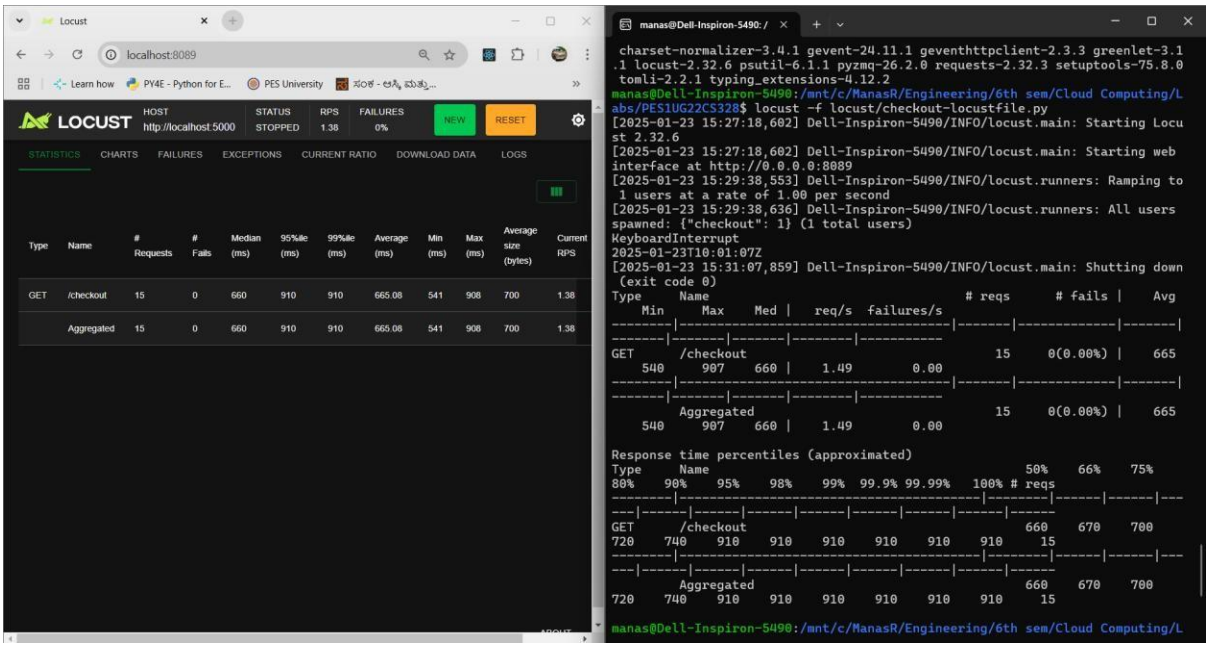

127.0.0.1
127.0.0.1:5000/checkout
Learn how
PY4E - Python for E...
PES University
Operating System C...
New Tab
This site can't be reached
127.0.0.1 refused to connect.
Try:
Checking the connection
Checking the proxy and the firewall
ERR_CONNECTION_REFUSED
Reload
Details


PES1UG22CS328 Checkout
127.0.0.1:5000/checkout
Learn how
PY4E - Python for E...
PES University
Operating System C...
New Tab
Total = 20850
Pay


PES1UG22CS328 Checkout
127.0.0.1:5000/payment?
Learn how
PY4E - Python for E...
PES University
Operating System C...
New Tab
The TAs have paid for your order.
Enjoy!!!
Go back to home


Locust
localhost:8089
Learn how
PY4E - Python for E...
PES University
Operating System C...
New Tab
LOCUST
HOST
http://localhost:5000
STATUS
READY
RPS
0
FAILURES
0%
Start new load test
Number of users (peak concurrency) *
1
Ramp up (users started/second) *
1
Host
http://localhost:5000
Advanced options
30s
START
ABOUT


Locust
localhost:8089
LOCUST
HOST
http://localhost:5000
STATUS
STOPPED
RPS
1.38
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 15 0 660 910 910 665.08 541 908 700 1.38 0
Aggregated 15 0 660 910 910 665.08 541 908 700 1.38 0


Locust
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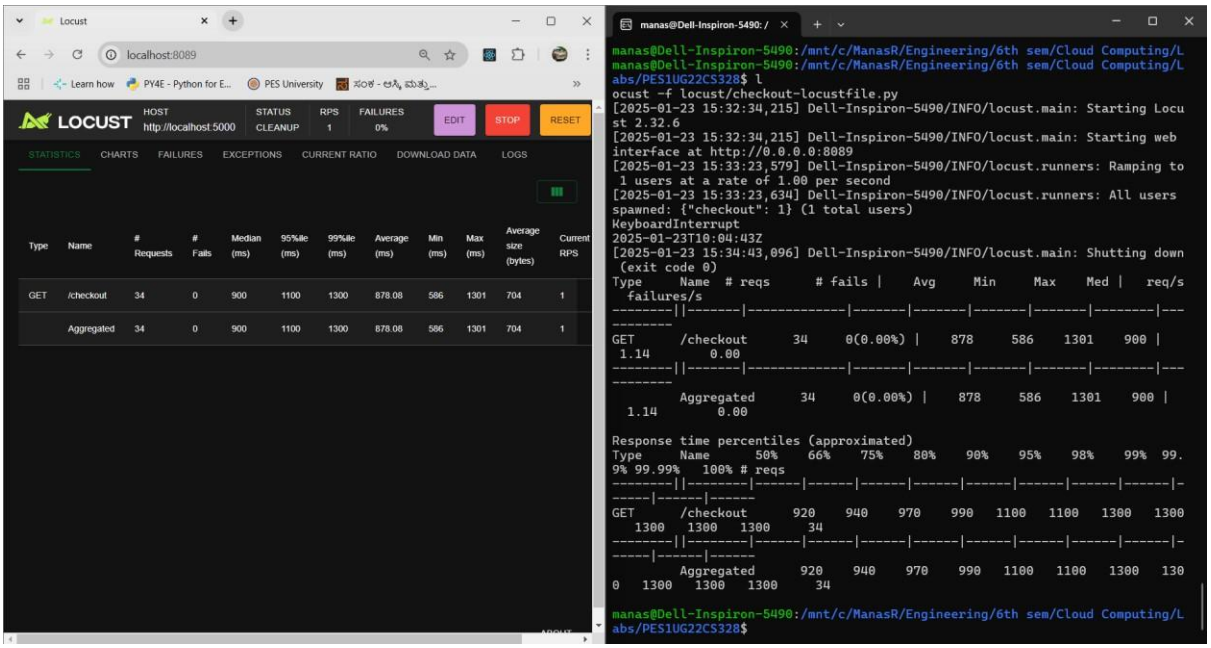
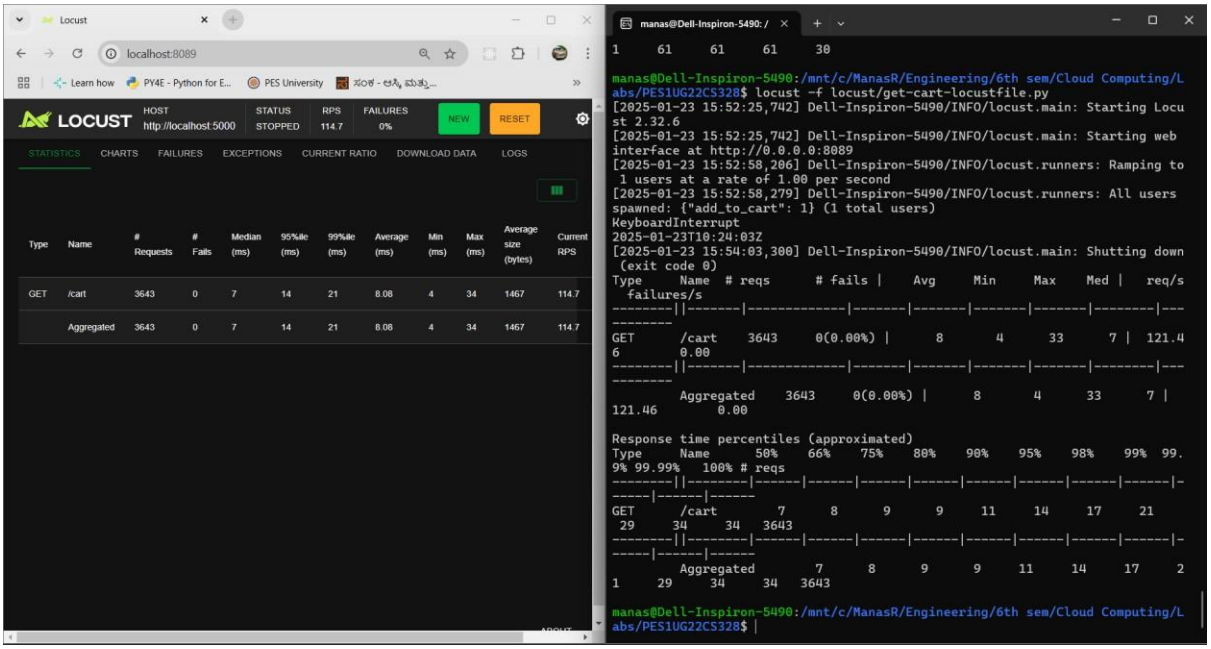
GET /checkout 15 0 660 910 910 665.08 541 908 700 1.38
Aggregated 15 0 660 910 910 665.08 541 908 700 1.38
manas@Dell-Inspiron-5490: /
charset-normalizer-3.4.1 gevent-24.11.1 geventhttpclient-2.3.3 greenlet-3.1.1 locust-2.32.6 psutil-6.1.1 pyzmq-26.2.0 requests-2.32.3 setuptools-75.8.0 tomli-2.2.1 typing_extensions-4.12.2
manas@Dell-Inspiron-5490:/mnt/c/ManasR/Engineering/6th sem/Cloud Computing/Labs/PES1UG22CS328$ locust -f locust/checkout-locustfile.py
[2025-01-23 15:27:18,602] Dell-Inspiron-5490/INFO/locust.main: Starting Locust 2.32.6
[2025-01-23 15:27:18,602] Dell-Inspiron-5490/INFO/locust.main: Starting web interface at http://0.0.0.0:8089
[2025-01-23 15:29:38,553] Dell-Inspiron-5490/INFO/locust.runners: Ramping to 1 users at a rate of 1.00 per second
[2025-01-23 15:29:38,636] Dell-Inspiron-5490/INFO/locust.runners: All users spawned: {"checkout": 1} (1 total users)
KeyboardInterrupt
2025-01-23T10:01:07Z
[2025-01-23 15:31:07,859] Dell-Inspiron-5490/INFO/locust.main: Shutting down (exit code 0)
Type Name # reqs # fails | Avg Min Max Med | req/s failures/s
GET /checkout 15 0(0.00%) | 665 540 907 660 | 1.49 0.00
Aggregated 15 0(0.00%) | 665 540 907 660 | 1.49 0.00
Response time percentiles (approximated)
Type Name 50% 66% 75% 80% 90% 95% 98% 99% 99.9% 99.99% 100% # reqs
GET /checkout 660 670 700 720 740 910 910 910 910 910 910 15
Aggregated 660 670 700 720 740 910 910 910 910 910 910 15
manas@Dell-Inspiron-5490:/mnt/c/ManasR/Engineering/6th sem/Cloud Computing/L

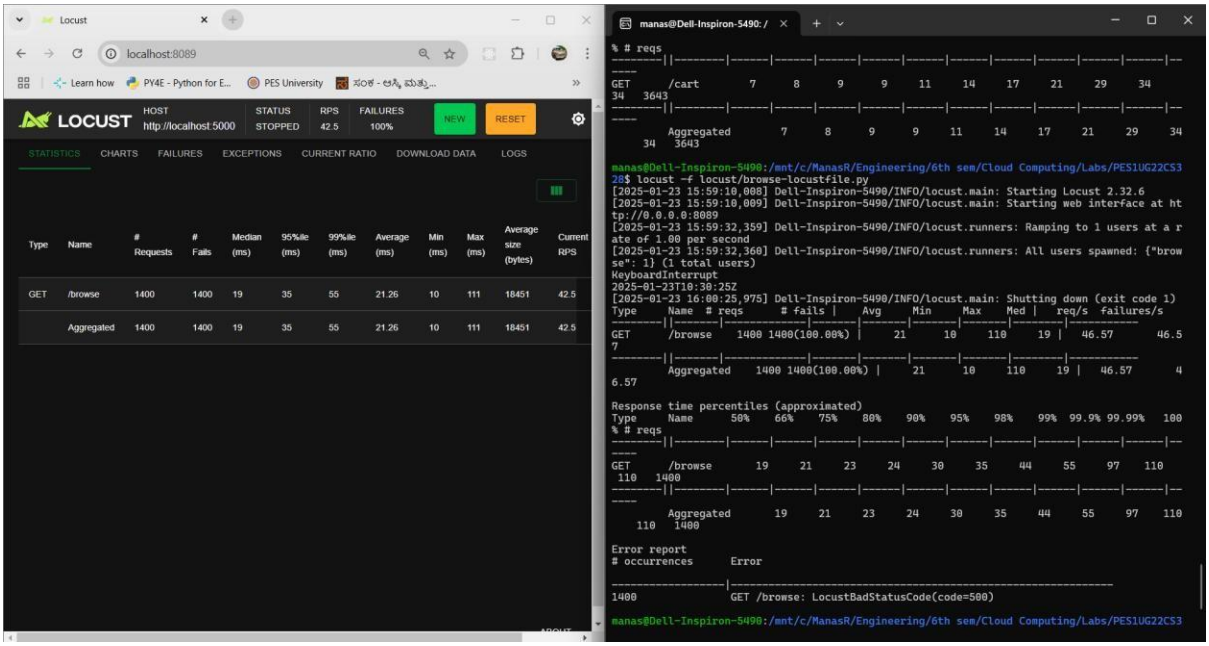
After Optimization of the code



After optimizing get-cart-locustfile.py(/cart directory)



After optimizing browse-locustfile.py (/products directory)



GitHub Link: https://github.com/manas1331/CC-Lab-3-Monolith/tree/main