

Cloud Computing Lab 3

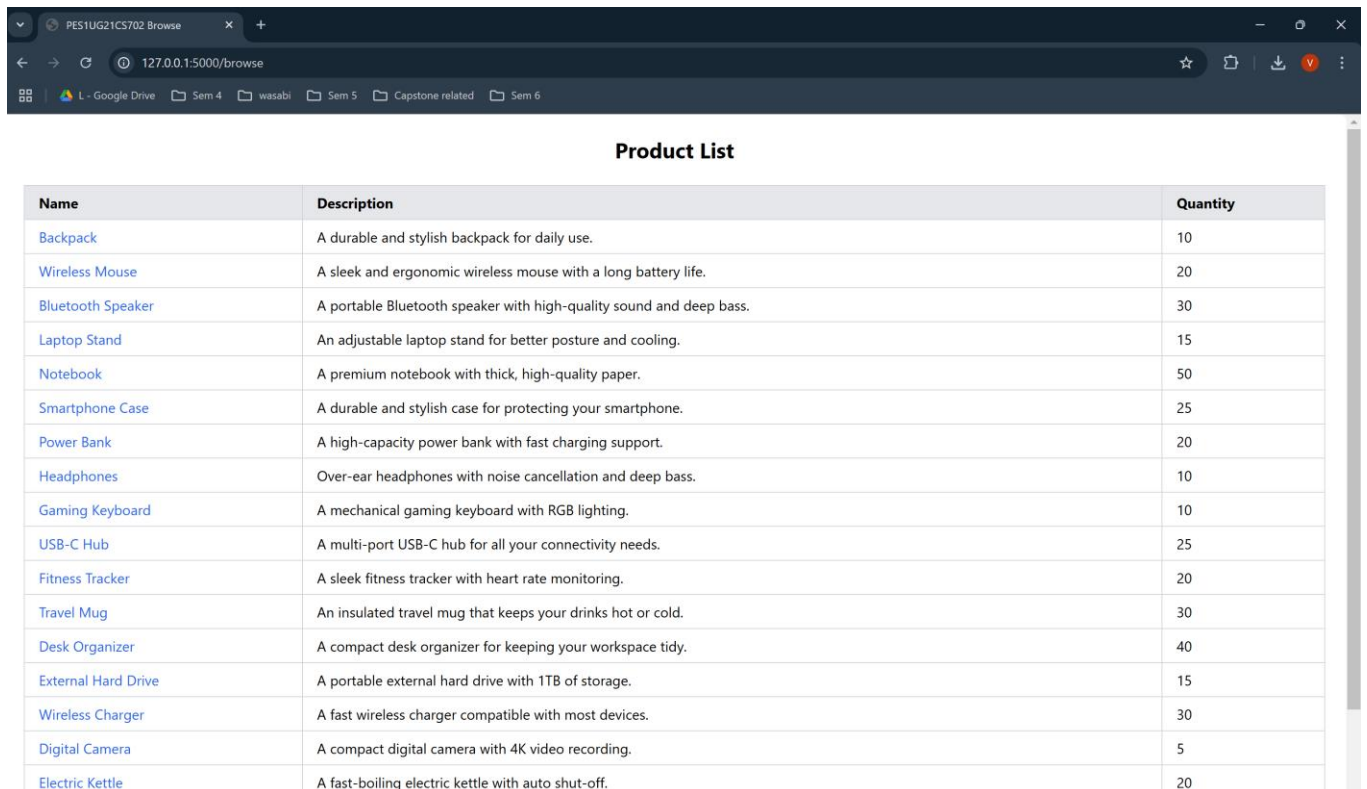
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SRN: PES1UG22CS702

6th Sem, Section L

Github repo: <https://github.com/Vishkrish108/CC-Lab3>

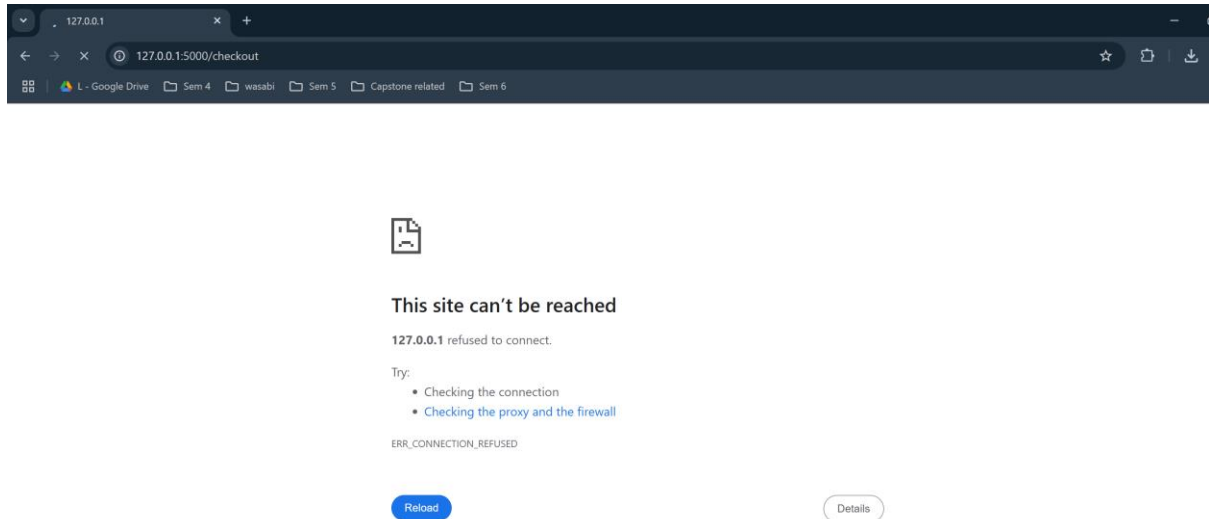
SS1:



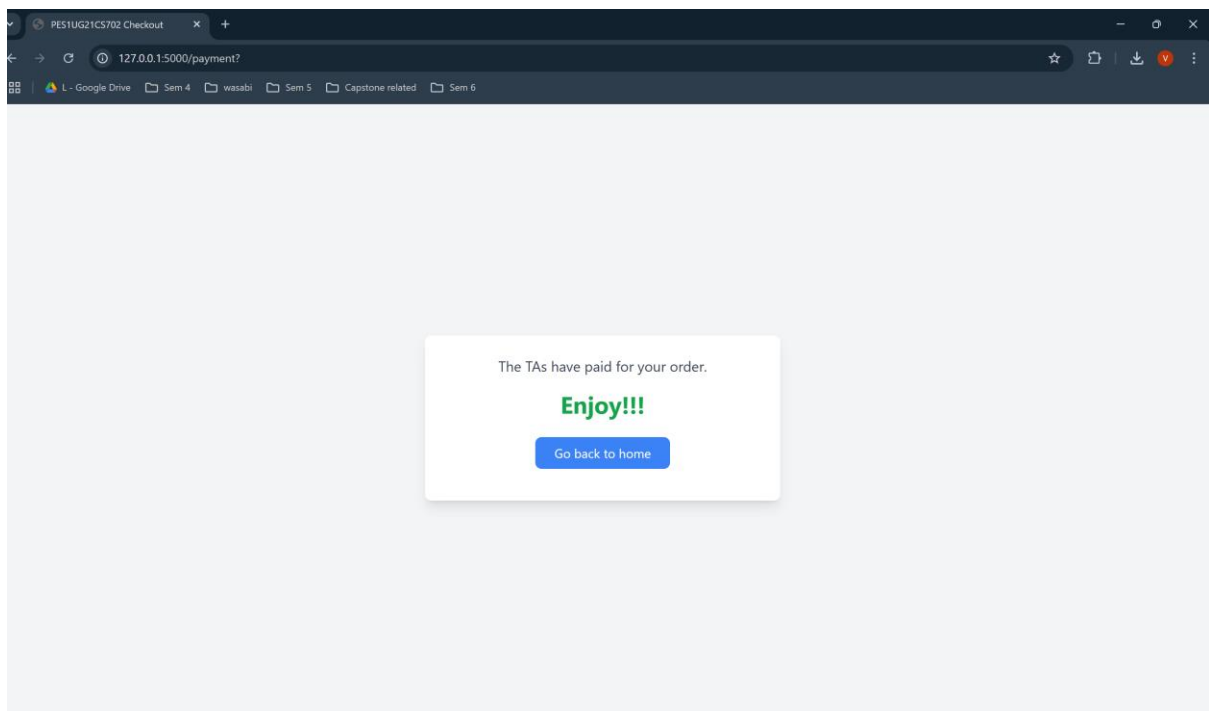
The screenshot shows a web browser window with the address bar displaying '127.0.0.1:5000/browse'. The browser's tab is labeled 'PES1UG21CS702 Browse'. Below the browser window, a table titled 'Product List' is displayed. The table has three columns: 'Name', 'Description', and 'Quantity'. It lists 17 different products, each with a brief description and a quantity value.

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

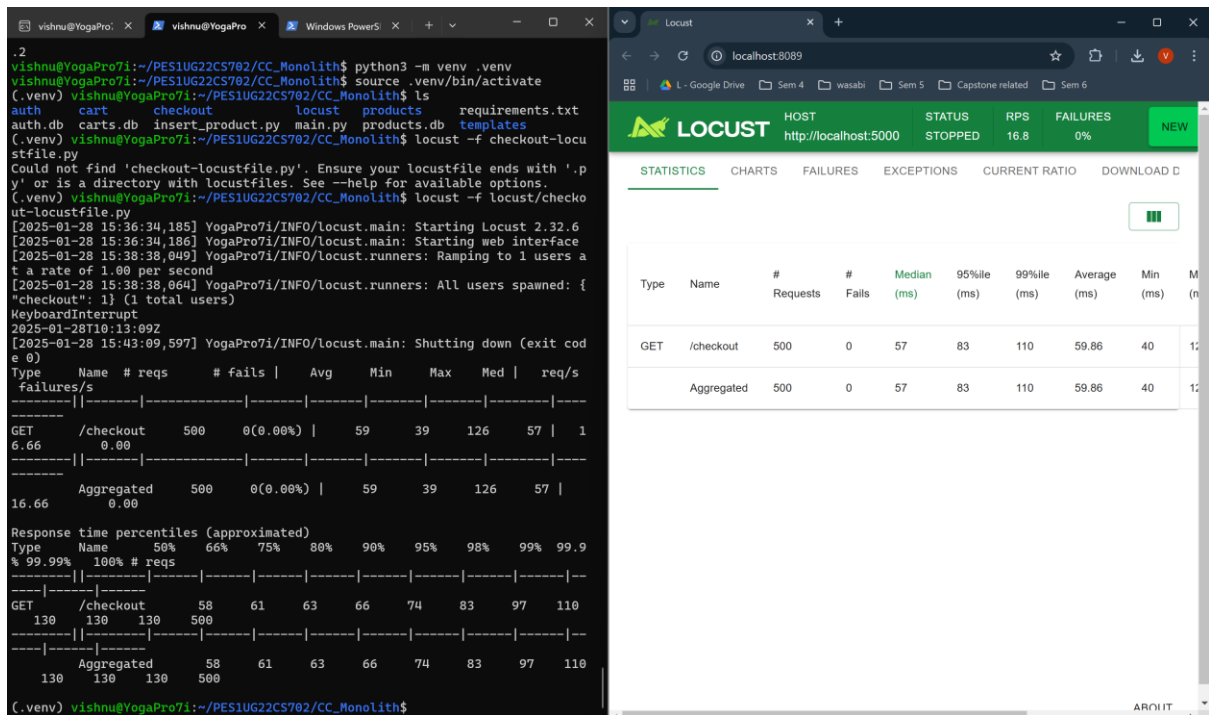
SS2:



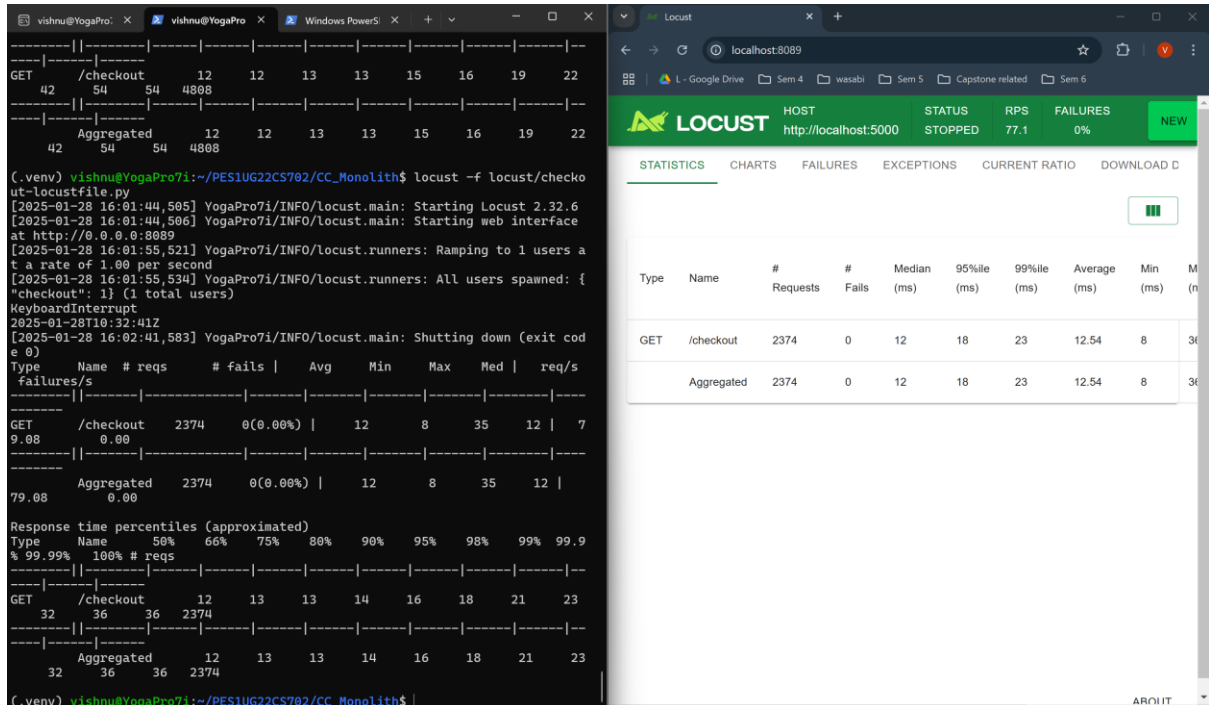
SS3:



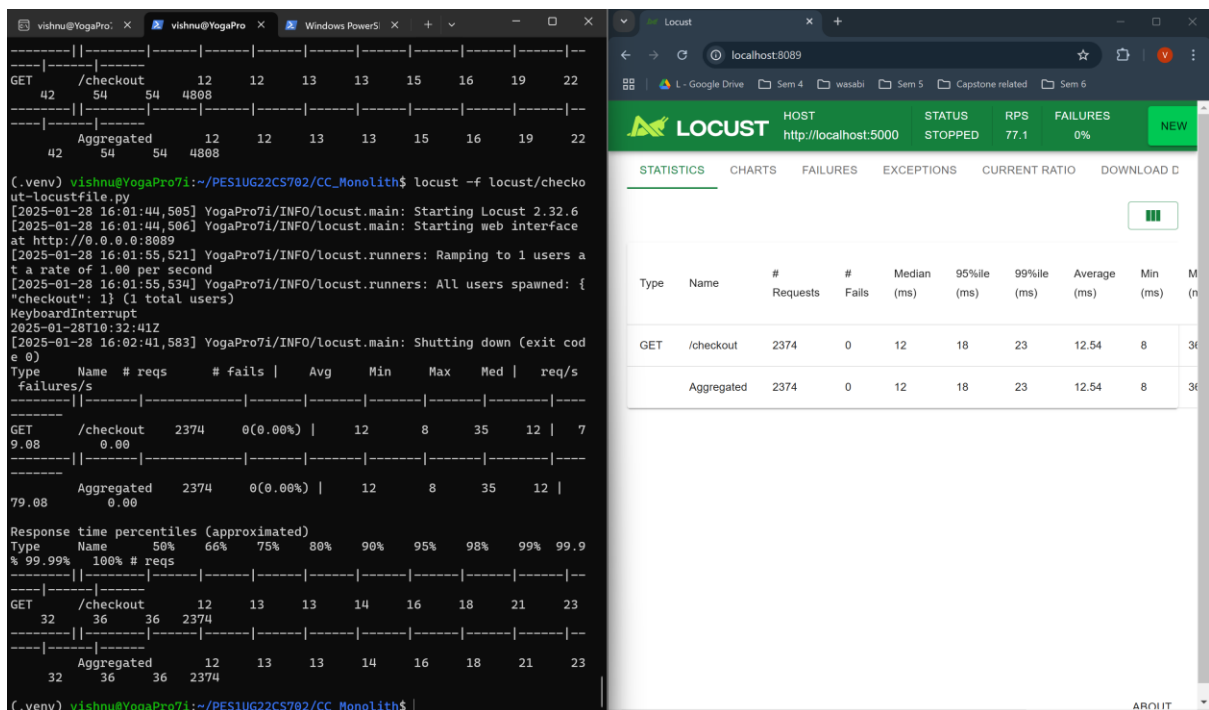
SS4: Without any optimisations



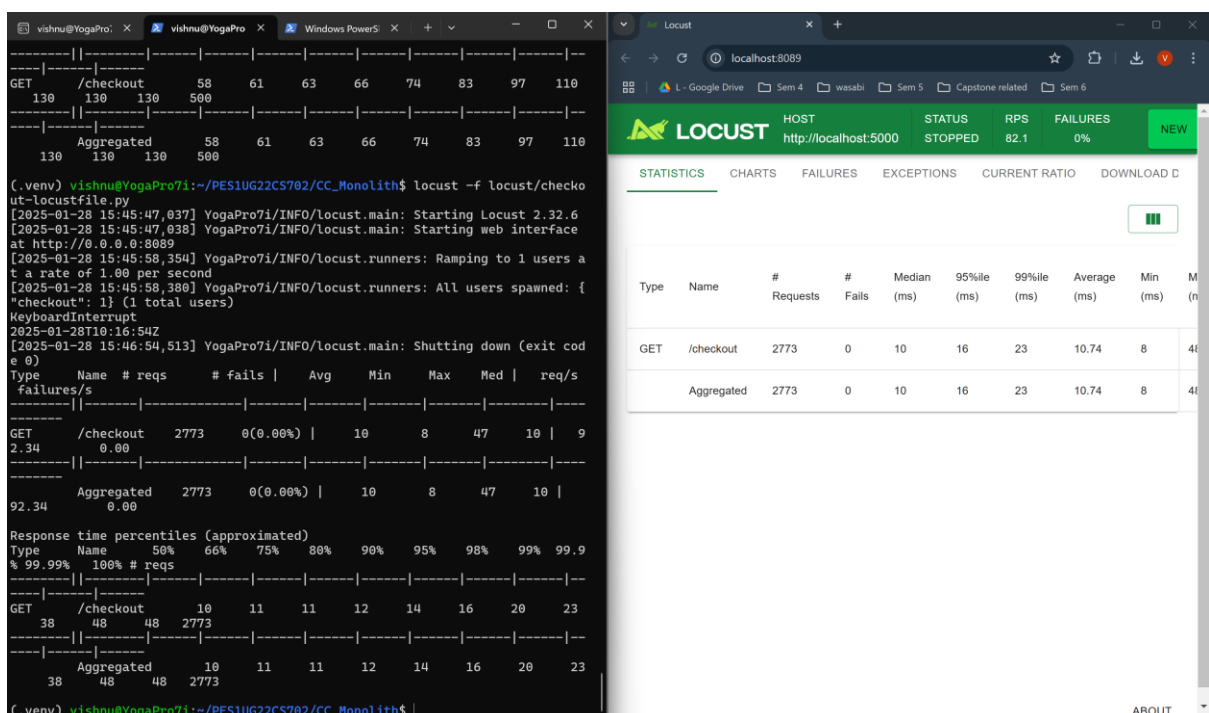
SS5: After optimising /checkout



SS6: Before optimising /cart



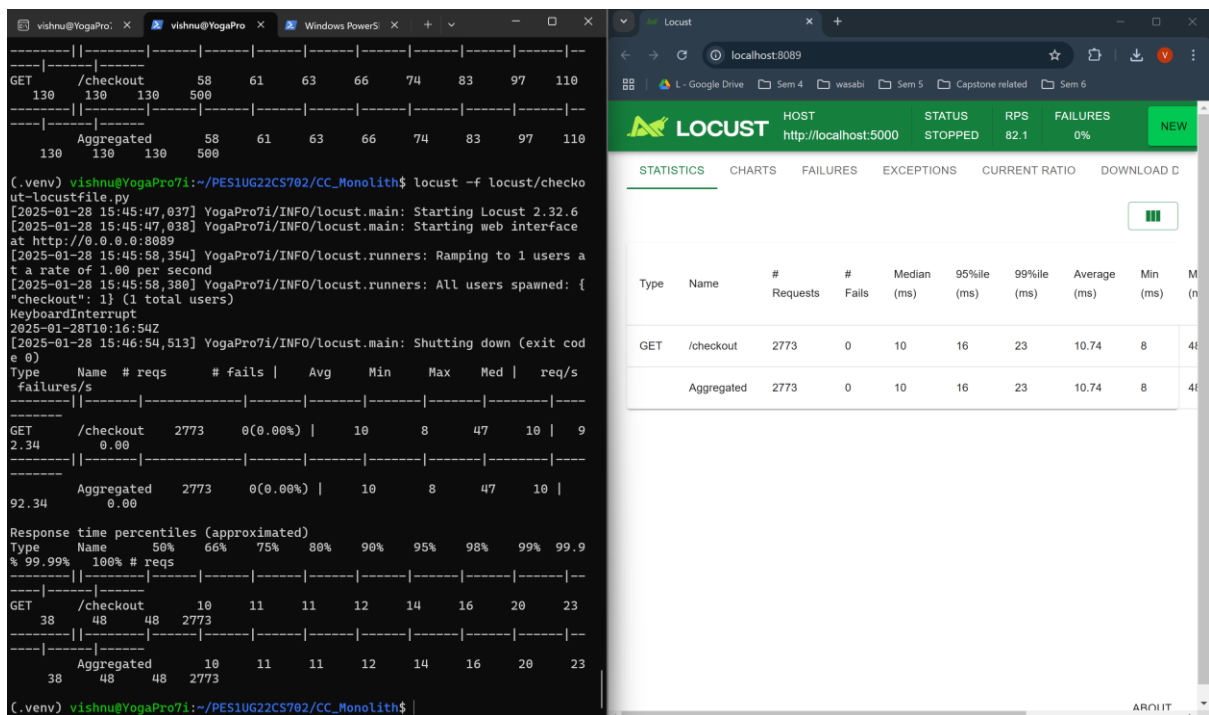
SS7: After optimising /cart



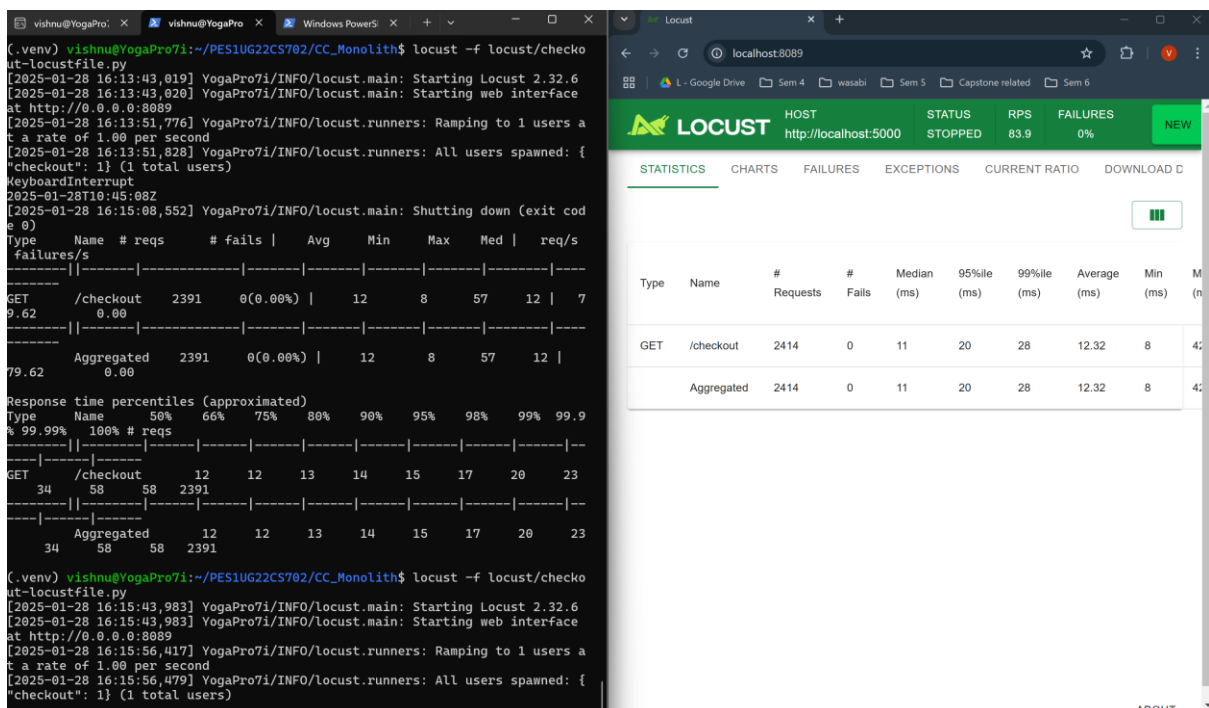
Changes made: `/cart/dao.py` - A redundant piece of code removed (Lines 36->39) and changed `temporary_cart` to `cart`.

As we can observe, the RPS has improved from 77.1 to 82.1 after optimisations.

SS8: Before optimising /browse



SS9: After optimising /browse



Changes made: /products/dao.py - Removed a loop that manually appends rows. Replaced with a `fetchall()` such that the program doesn't waste time accessing the database multiple times.

As we can observe, the RPS has improved from 82.1 to 83.9 after optimisations.