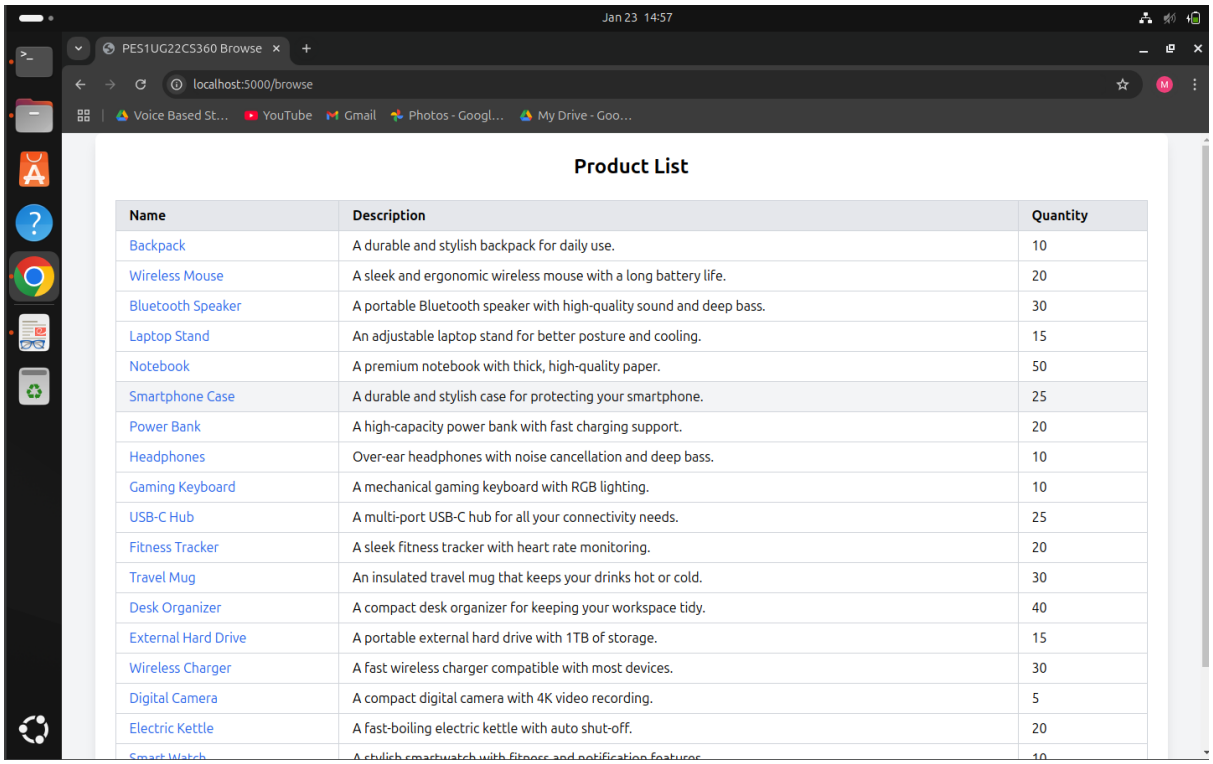
CC LAB 3

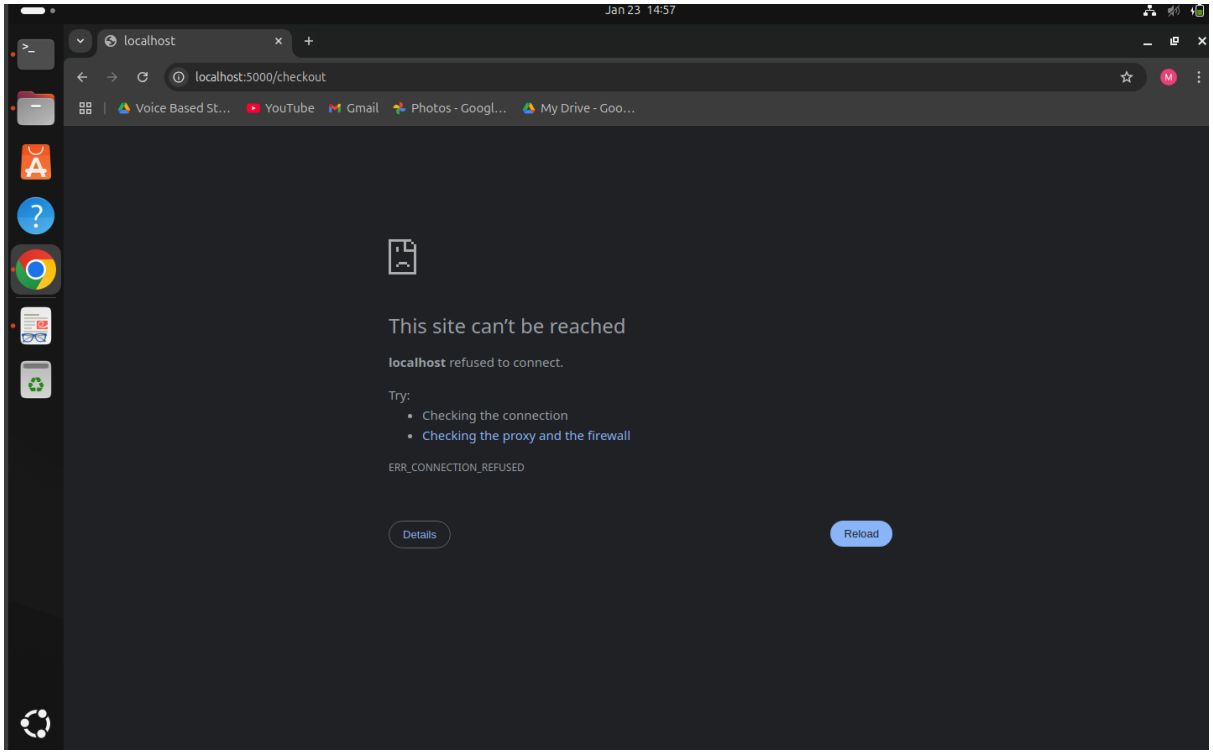
Name : Mohul Y P

SRN : PES1UG22CS360

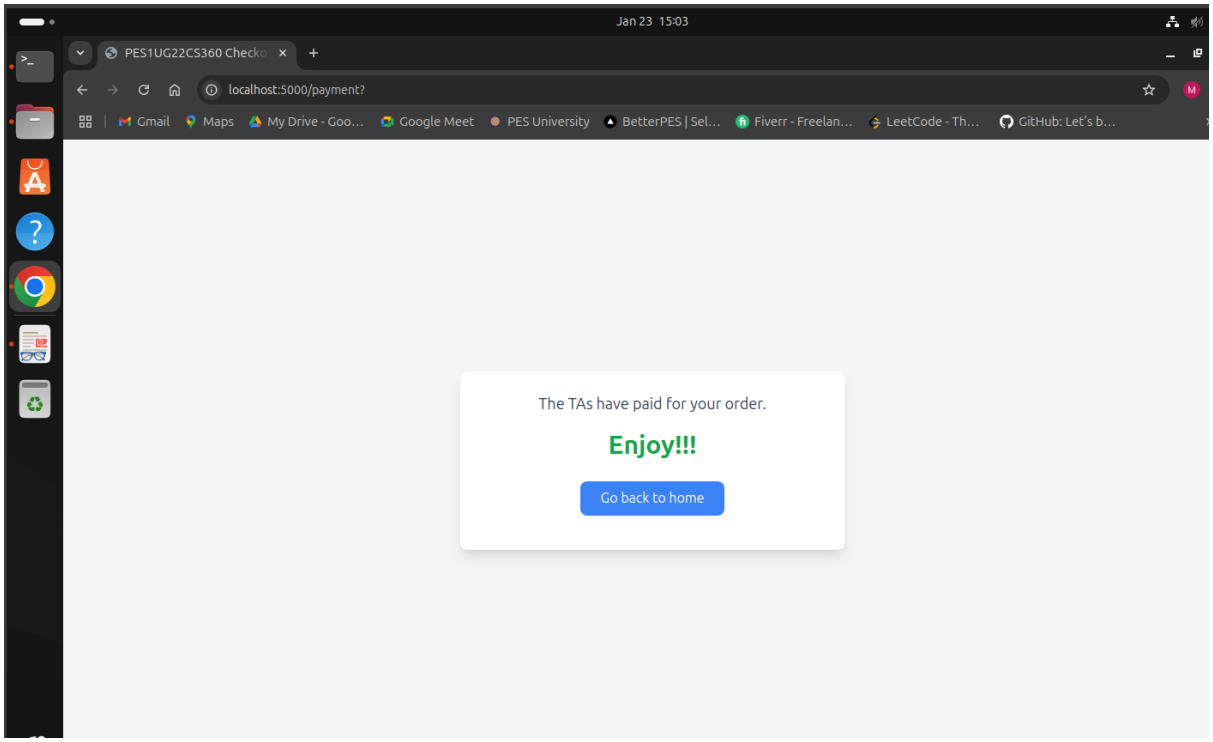
SS1



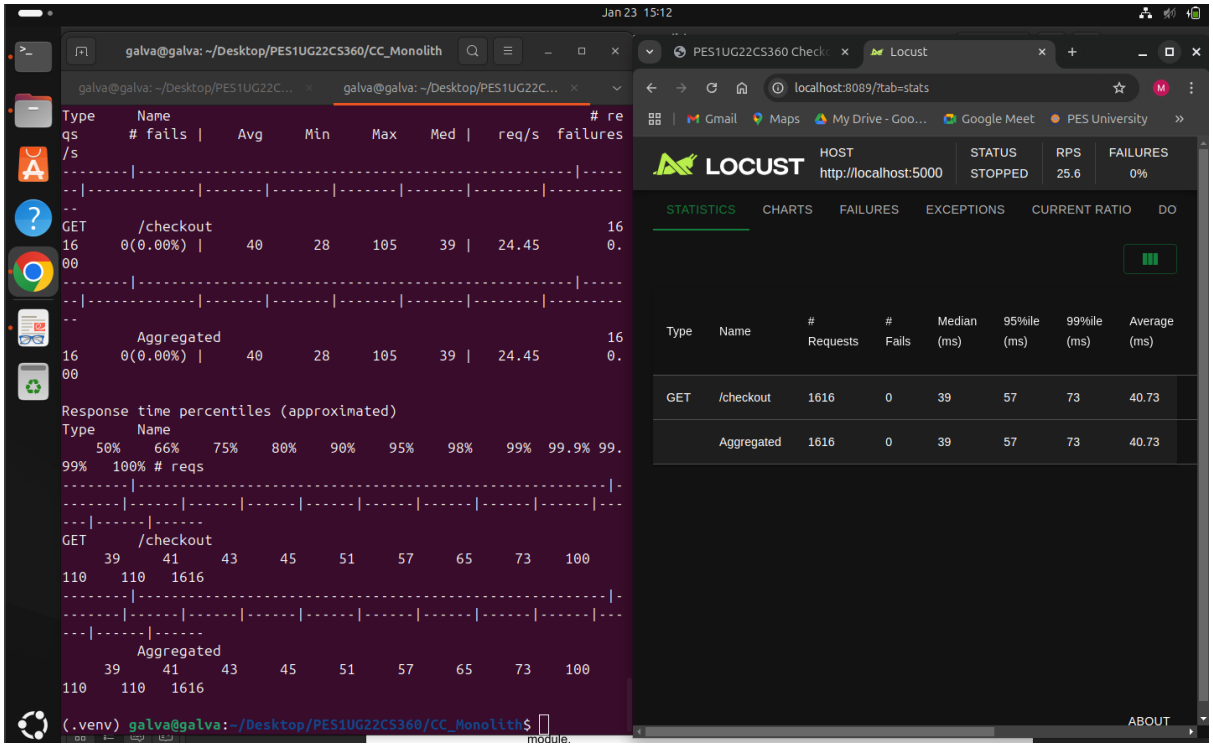
SS2


Jan 23 14:57
localhost
localhost:5000/checkout
Voice Based St...
YouTube
Gmail
Photos - Googl...
My Drive - Goo...
This site can't be reached
localhost refused to connect.
Try:
Checking the connection
Checking the proxy and the firewall
ERR_CONNECTION_REFUSED
Details
Reload

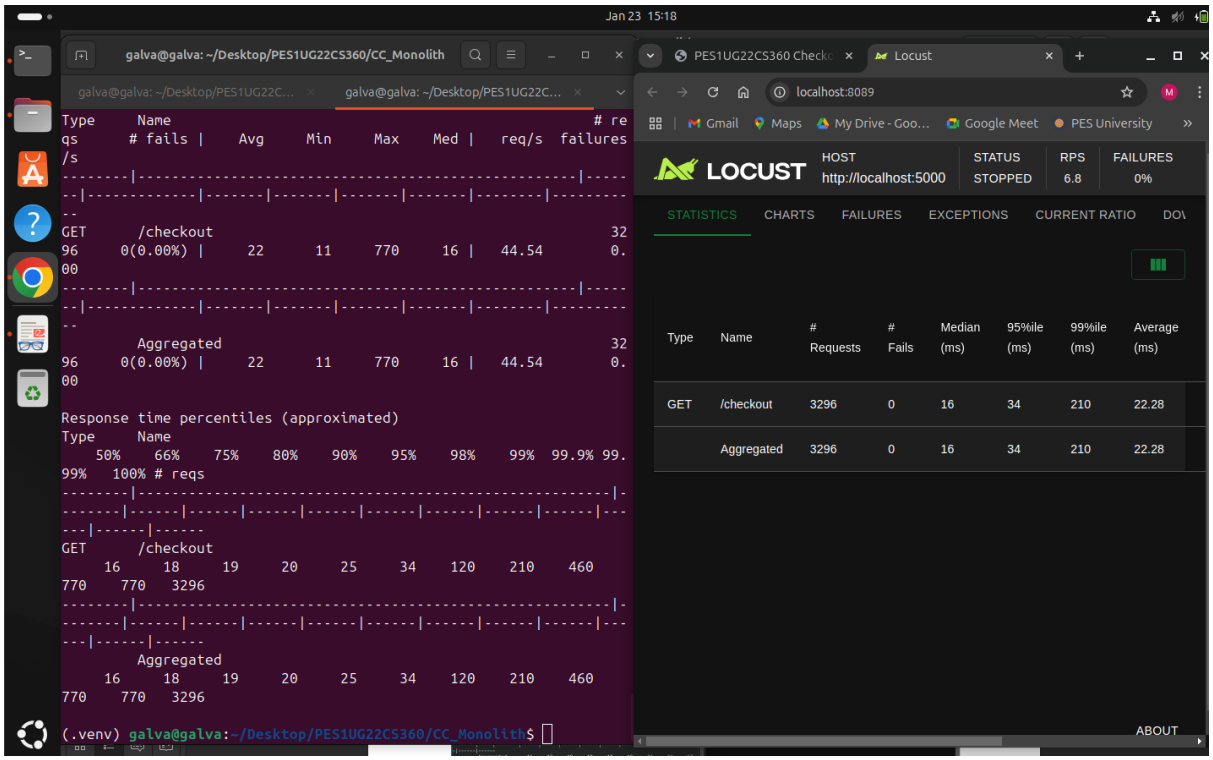
SS3


Jan 23 15:03
PES1UG22CS360 Checko
localhost:5000/payment?
Gmail
Maps
My Drive - Goo...
Google Meet
PES University
BetterPES | Sel...
Fiverr - Freelan...
LeetCode - Th...
GitHub: Let's b...
The TAs have paid for your order.
Enjoy!!!
Go back to home

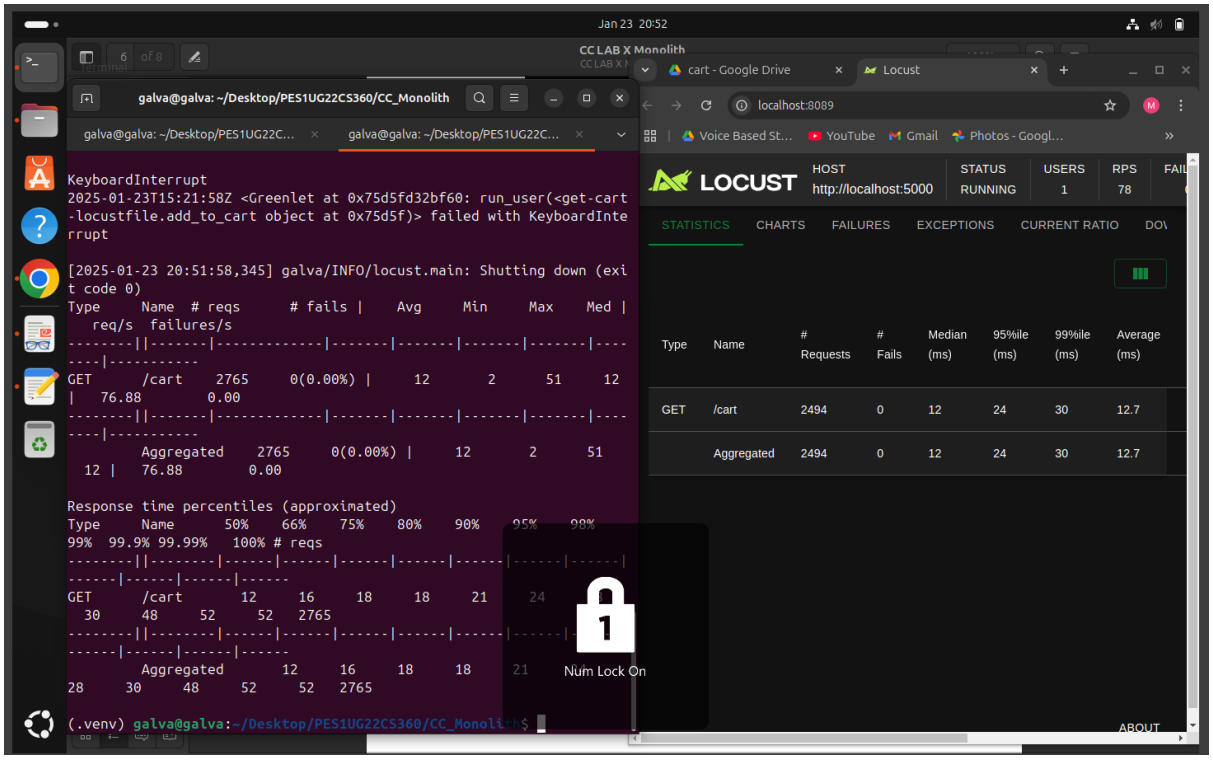
SS4


Jan 23 15:12
galva@galva: ~/Desktop/PES1UG22CS360/CC_Monolith
Type Name # reqs # fails | Avg Min Max Med | req/s failures/s
GET /checkout 16 0(0.00%) | 40 28 105 39 | 24.45 0.00
Aggregated 16 0(0.00%) | 40 28 105 39 | 24.45 0.00
Response time percentiles (approximated)
Type Name 50% 66% 75% 80% 90% 95% 98% 99% 99.9% 99.99% 100% # reqs
GET /checkout 39 41 43 45 51 57 65 73 100 110 110 1616
Aggregated 39 41 43 45 51 57 65 73 100 110 110 1616
(.venv) galva@galva:~/Desktop/PES1UG22CS360/CC_Monolith$
PES1UG22CS360 Check
Locust
localhost:8089/?tab=stats
Gmail
Maps
My Drive - Goo...
Google Meet
PES University
LOCUST
HOST http://localhost:5000
STATUS STOPPED
RPS 25.6
FAILURES 0%
STATISTICS
CHARTS
FAILURES
EXCEPTIONS
CURRENT RATIO
DO
Type Name # Requests # Fails Median (ms) 95%ile (ms) 99%ile (ms) Average (ms)
GET /checkout 1616 0 39 57 73 40.73
Aggregated 1616 0 39 57 73 40.73
ABOUT

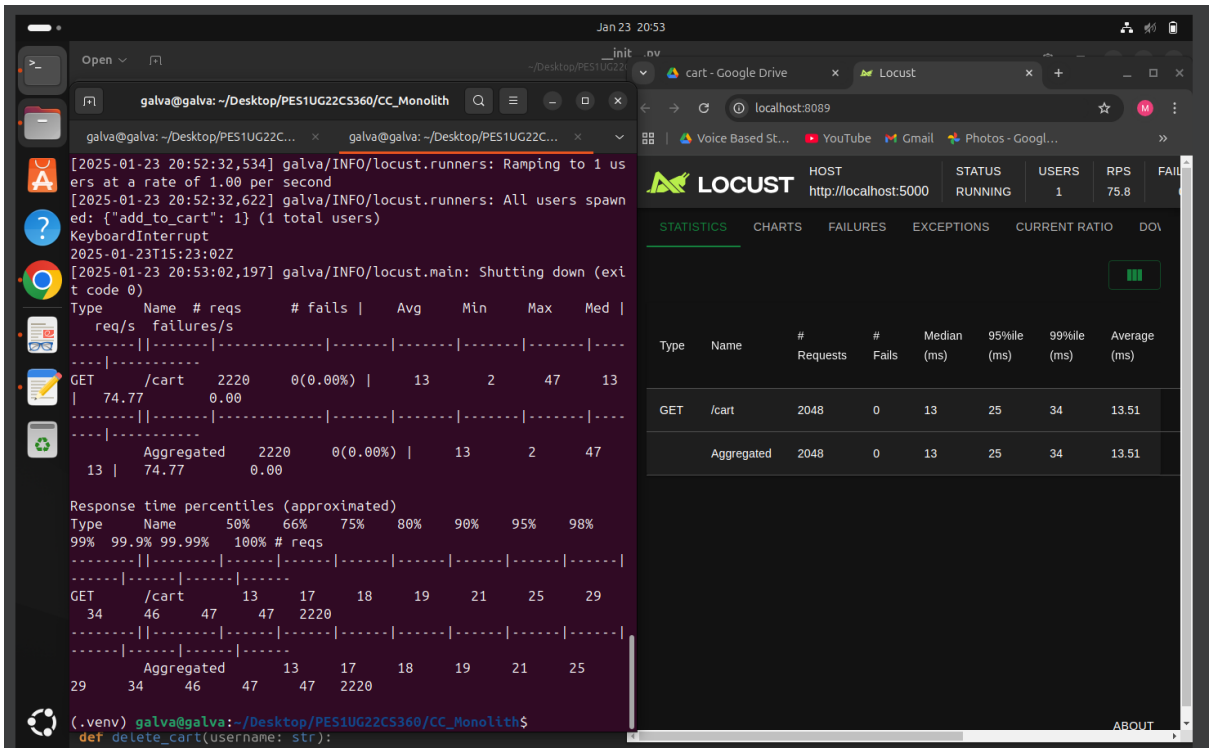
SS5


Jan 23 15:18
galva@galva: ~/Desktop/PES1UG22CS360/CC_Monolith
Type Name # reqs # fails | Avg Min Max Med | req/s failures/s
GET /checkout 32 0(0.00%) | 22 11 770 16 | 44.54 0.00
Aggregated 32 0(0.00%) | 22 11 770 16 | 44.54 0.00
Response time percentiles (approximated)
Type Name 50% 66% 75% 80% 90% 95% 98% 99% 99.9% 99.99% 100% # reqs
GET /checkout 16 18 19 20 25 34 120 210 460 770 770 3296
Aggregated 16 18 19 20 25 34 120 210 460 770 770 3296
(.venv) galva@galva:~/Desktop/PES1UG22CS360/CC_Monolith$
PES1UG22CS360 Check
Locust
localhost:8089
Gmail
Maps
My Drive - Goo...
Google Meet
PES University
LOCUST
HOST http://localhost:5000
STATUS STOPPED
RPS 6.8
FAILURES 0%
STATISTICS
CHARTS
FAILURES
EXCEPTIONS
CURRENT RATIO
Type Name # Requests # Fails Median (ms) 95%ile (ms) 99%ile (ms) Average (ms)
GET /checkout 3296 0 16 34 210 22.28
Aggregated 3296 0 16 34 210 22.28
ABOUT

SS6



SS7



for cart_detail in cart_details:

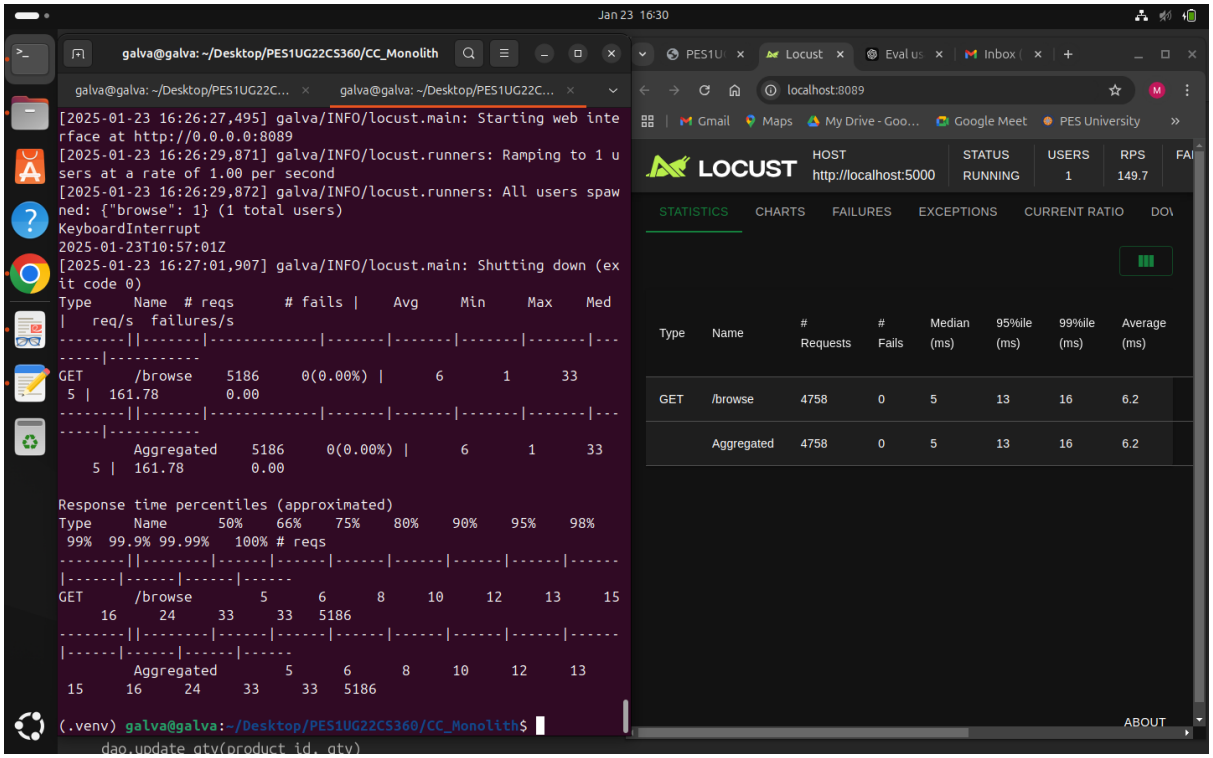
```
        contents = cart_detail['contents']
        evaluated_contents = eval(contents)
        for content in evaluated_contents:
            items.append(content)

    i2 = []
    for i in items:
        temp_product = products.get_product(i)
        i2.append(temp_product)
    return i2
```

in /cart/__init__.py replaced by

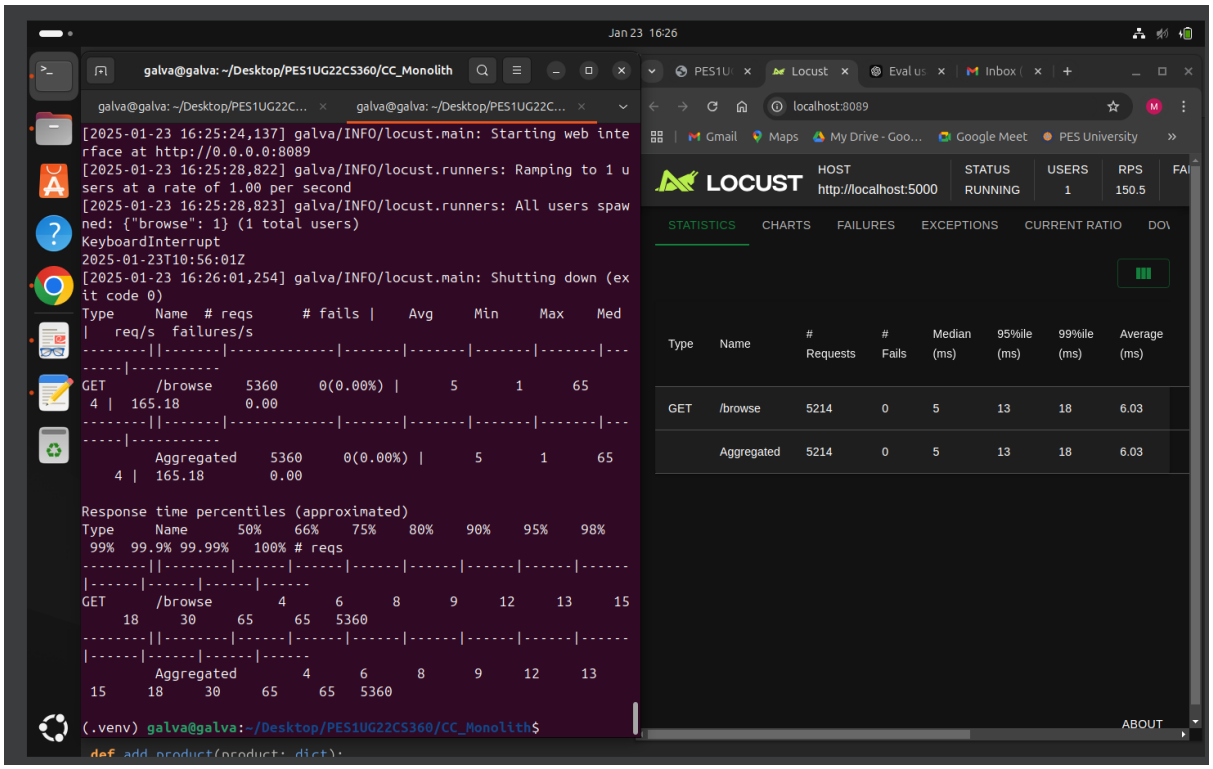
```
for cart_detail in cart_details:
        contents = cart_detail['contents']
        evaluated_contents = eval(contents)
        for content in evaluated_contents:
            temp_product = products.get_product(i)
            i2.append(temp_product)
    return i2
```

Optimization : By skipping the intermediary list, the new code reduces the number of iterations and variable management. This results in slightly faster execution, especially for large datasets.

SS8



SS9




```
def list_products() -> list[Product]:
    products = dao.list_products()
```

```
    result = []
    for product in products:
        result.append(Product.load(product))

    return result
```

from products/__init__.py replaced by

```
def list_products() -> list[Product]:
    # Use list comprehension to create and return the list in one step
    return [Product.load(product) for product in dao.list_products()]
```

Optimization: If the result of the list comprehension is the final list, there's no need to store it in a temporary variable. We can directly return the list from the comprehension which computes faster.

Github repo link : https://github.com/galva2174/cc_lab_3