

CC Lab-3

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Repo: [CC-LAB3](#)

SS-1

A screenshot of a Firefox browser window. The address bar shows 'localhost:5000/cart'. The main content area displays a 'Cart' table with the following data:

Product	Price	Action
Wireless Mouse	800.0	Remove
Backpack	800.0	Remove
Gaming Keyboard	3000.0	Remove
External Hard Drive	800.0	Remove
Portable Projector	15000.0	Remove

Below the table are four buttons: 'Checkout' (blue), 'Clear Cart' (grey), 'Refresh' (yellow), and 'Back to Products' (green).

SS-2

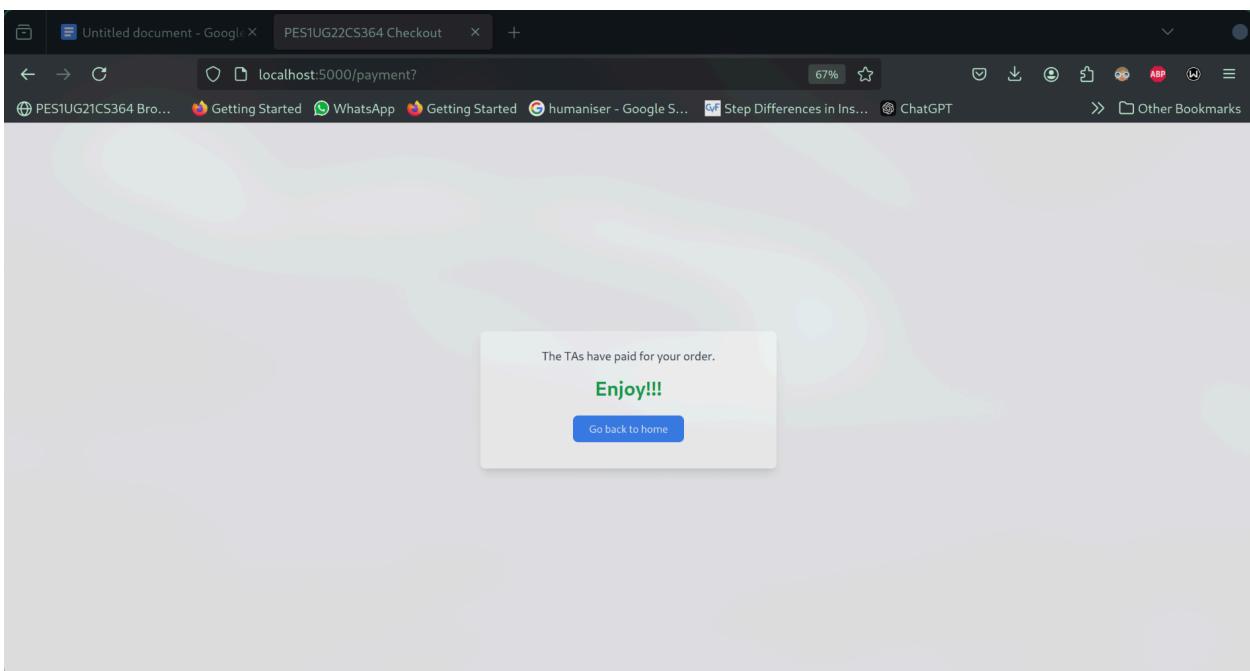
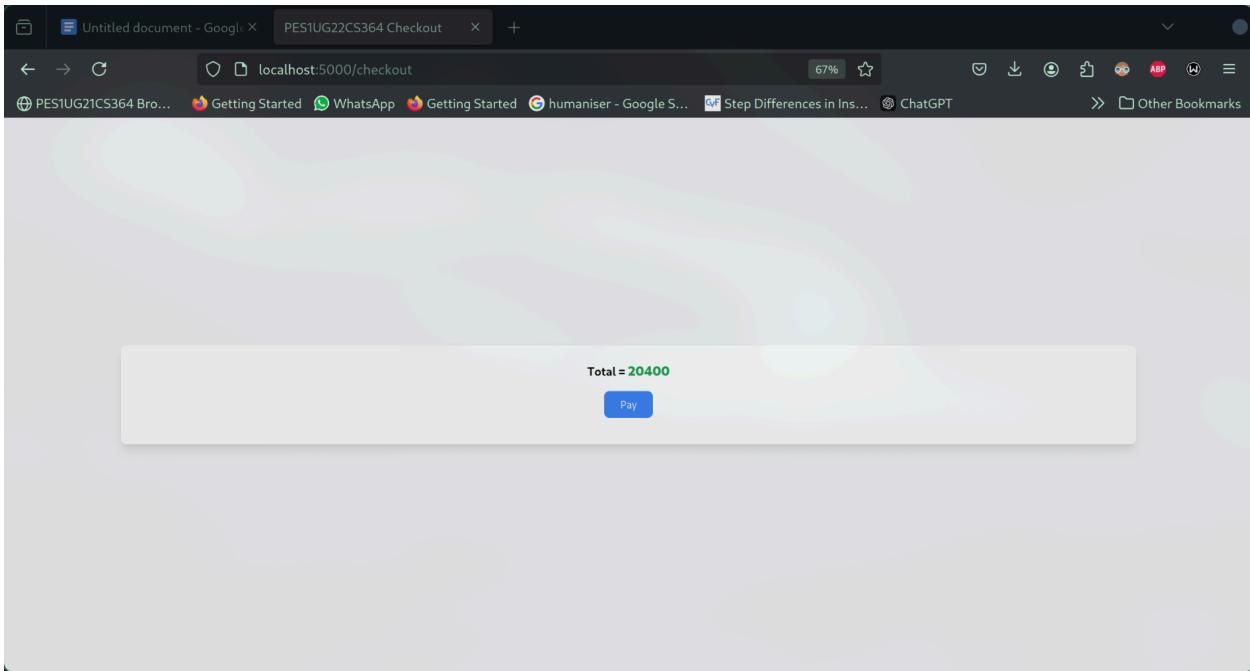
A screenshot of a Firefox browser window. The address bar shows 'localhost:5000/checkout'. The main content area displays an 'Unable to connect' message with the following text:

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.

At the bottom is a 'Try Again' button.

SS-3



SS-4

The screenshot shows a terminal window with several tabs open. The current tab displays Locust test results for a 'checkout' endpoint. The results table includes columns for Type, Name, # Requests, # Fails, Median (ms), 95%ile (ms), Average (ms), Min (ms), Max (ms), Average size (bytes), Current RPS, and Current Failures/s. The 'Aggregated' row shows 792 requests, 0 fails, and an average response time of 80 ms. Below the table are response time percentiles (approximated) for both the individual endpoint and the aggregated results.

Locust Test Results:

Type	Name	# Requests	# Fails	Median (ms)	95%ile (ms)	Average (ms)	Min (ms)	Max (ms)	Average size (bytes)	Current RPS	Current Failures/s	
GET	/checkout	792	0	80	97	110	81.47	68	137	690	12.5	0
Aggregated												
792 0 80 97 110 81.47 68 137 690 12.5 0												

Response Time Percentiles (approximated):

Type	Name	50%	66%	75%	80%	90%	95%	98%	99%	99.9%	99.99%	100%	# reqs
GET	/checkout	80	83	85	86	91	97	110	110	110	110	110	793
Aggregated													
80 83 85 86 91 97 110 110 110 110 110 110 110 793													

SS-5

The screenshot shows a terminal window with several tabs open. The current tab displays Locust test results for a 'checkout' endpoint. The results table includes columns for Type, Name, # Requests, # Fails, Median (ms), 95%ile (ms), Average (ms), Min (ms), Max (ms), Average size (bytes), Current RPS, and Current Failures/s. The 'Aggregated' row shows 792 requests, 0 fails, and an average response time of 80 ms. Below the table are response time percentiles (approximated) for both the individual endpoint and the aggregated results.

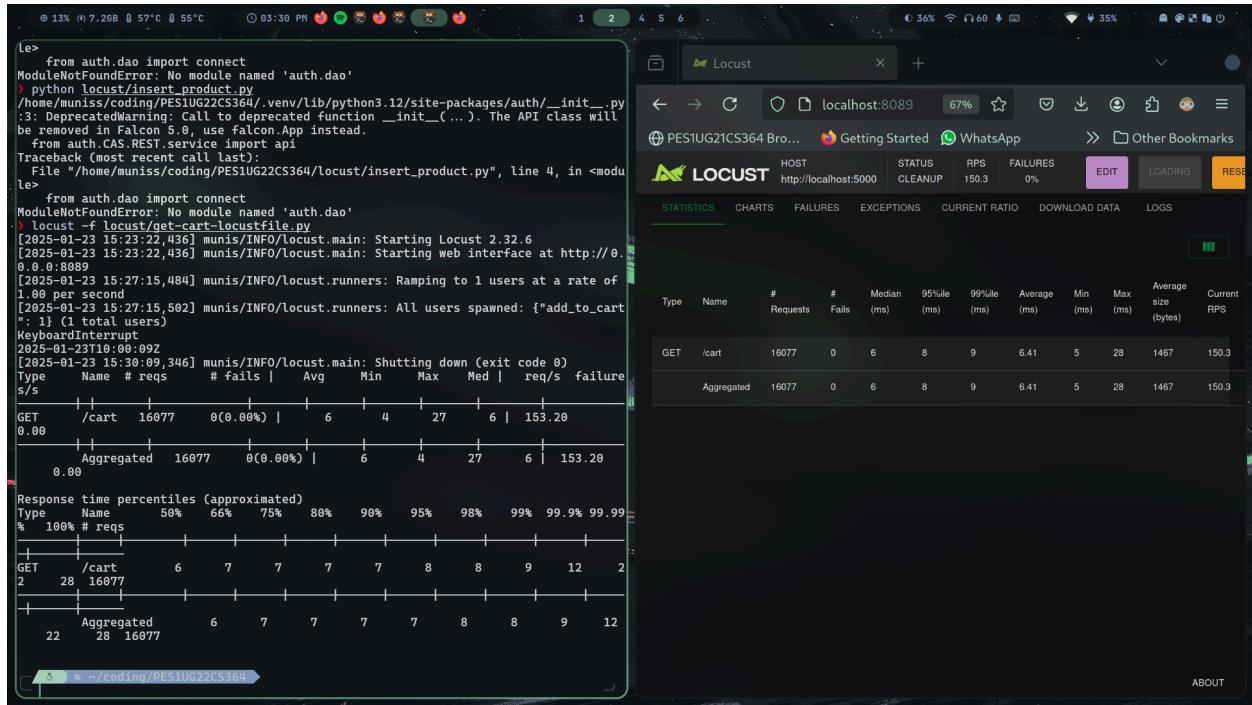
Locust Test Results:

Type	Name	# Requests	# Fails	Median (ms)	95%ile (ms)	Average (ms)	Min (ms)	Max (ms)	Average size (bytes)	Current RPS	Current Failures/s	
GET	/checkout	792	0	80	97	110	81.47	68	137	690	12.5	0
Aggregated												
792 0 80 97 110 81.47 68 137 690 12.5 0												

Response Time Percentiles (approximated):

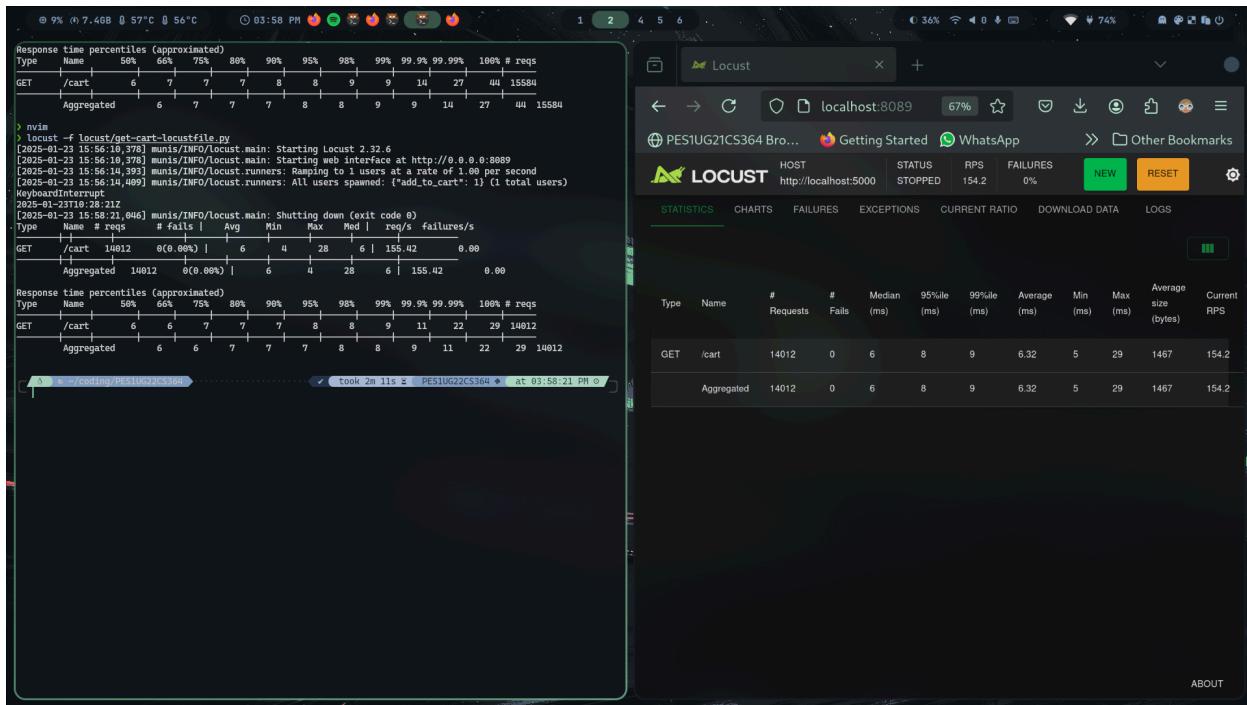
Type	Name	50%	66%	75%	80%	90%	95%	98%	99%	99.9%	99.99%	100%	# reqs
GET	/checkout	80	83	85	86	91	97	110	110	110	110	110	792
Aggregated													
80 83 85 86 91 97 110 110 110 110 110 110 110 792													

SS-6 Before /cart

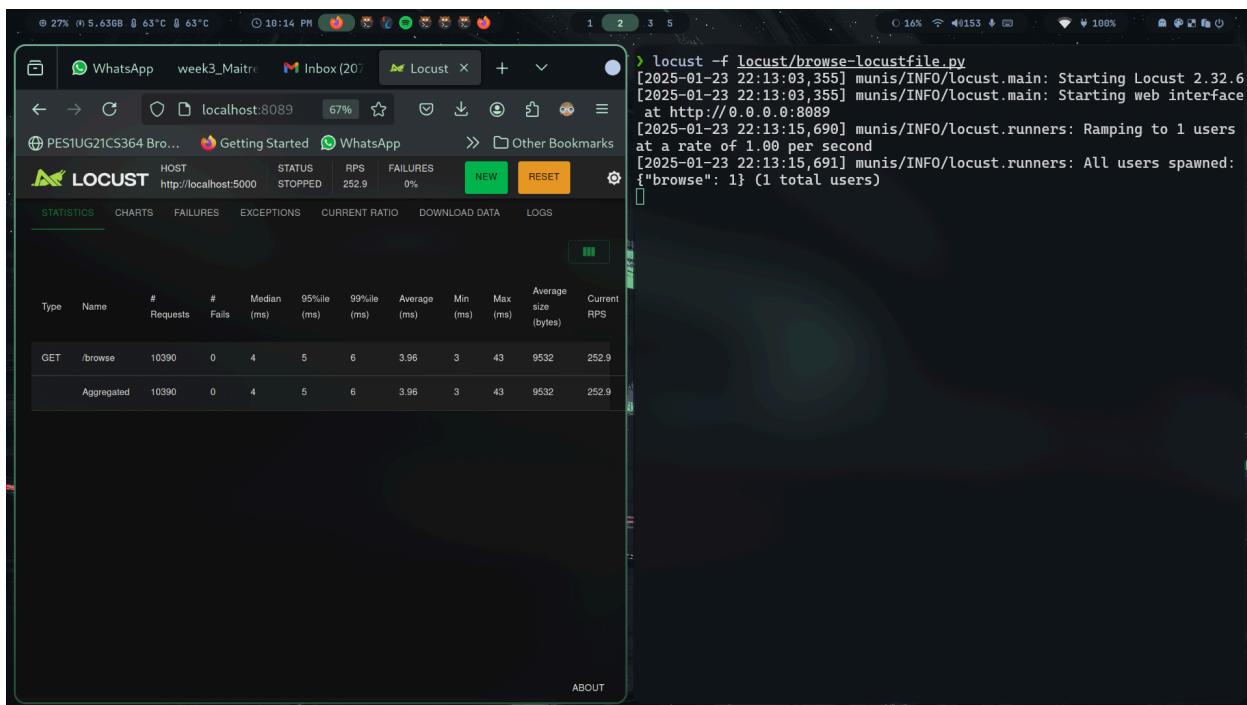


We optimised by using json for loading data only once.

SS-7 After optimising /cart



SS-8 Before /browse



We optimised by calling the database code and fetchall instead of using for loop as well as using json for loading.

SS-8 After /browse