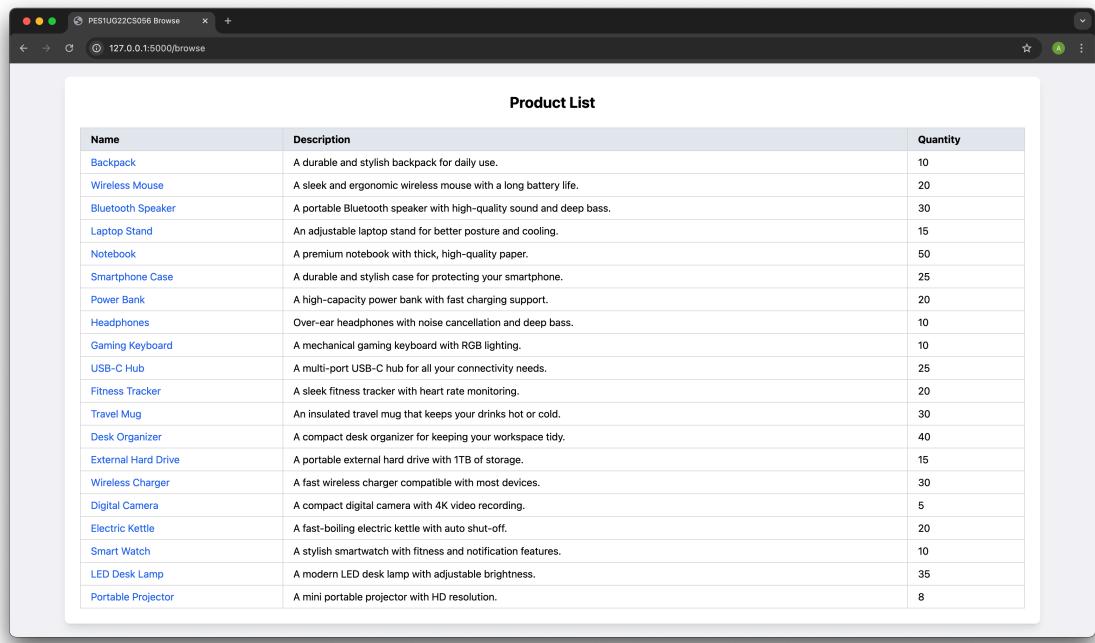


Cloud Computing Lab-03

Submitted by: Akash Anand

SRN: PES1UG22CS056

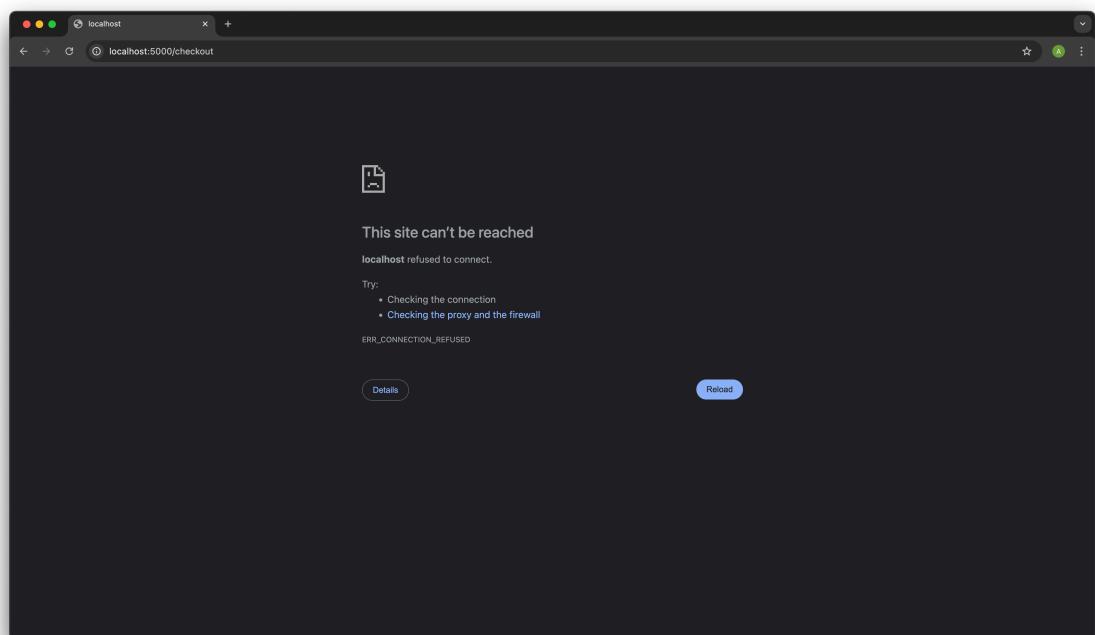
SS1:



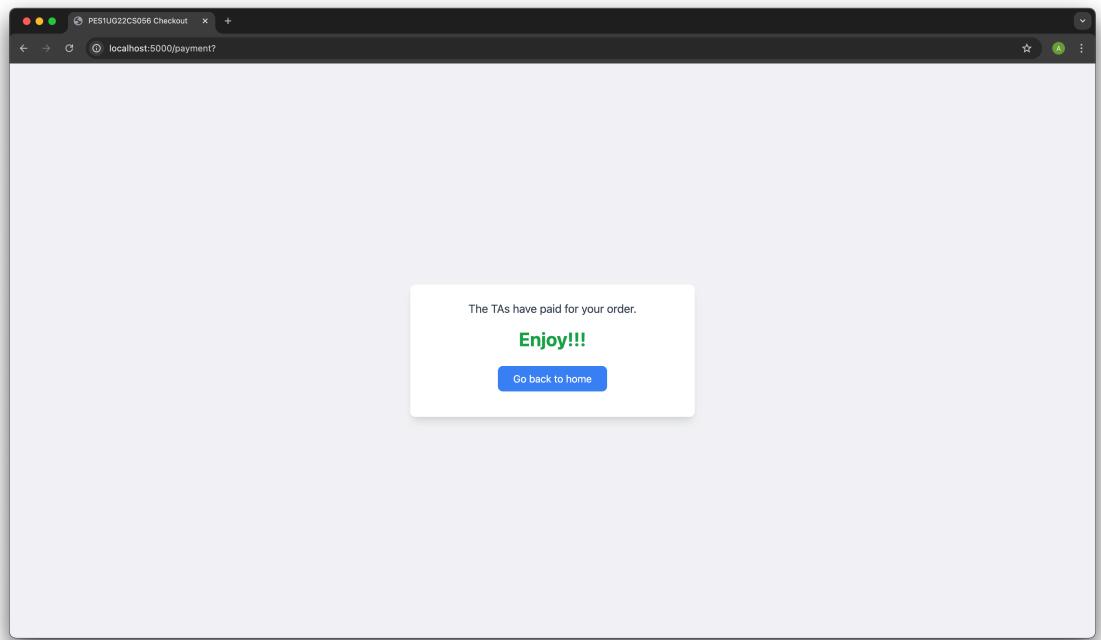
A screenshot of a web browser window titled "PESTUG22CS056 Browse" showing a "Product List". The table has three columns: Name, Description, and Quantity. The data includes various items like Backpack, Wireless Mouse, Bluetooth Speaker, etc., with their respective descriptions and quantities.

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

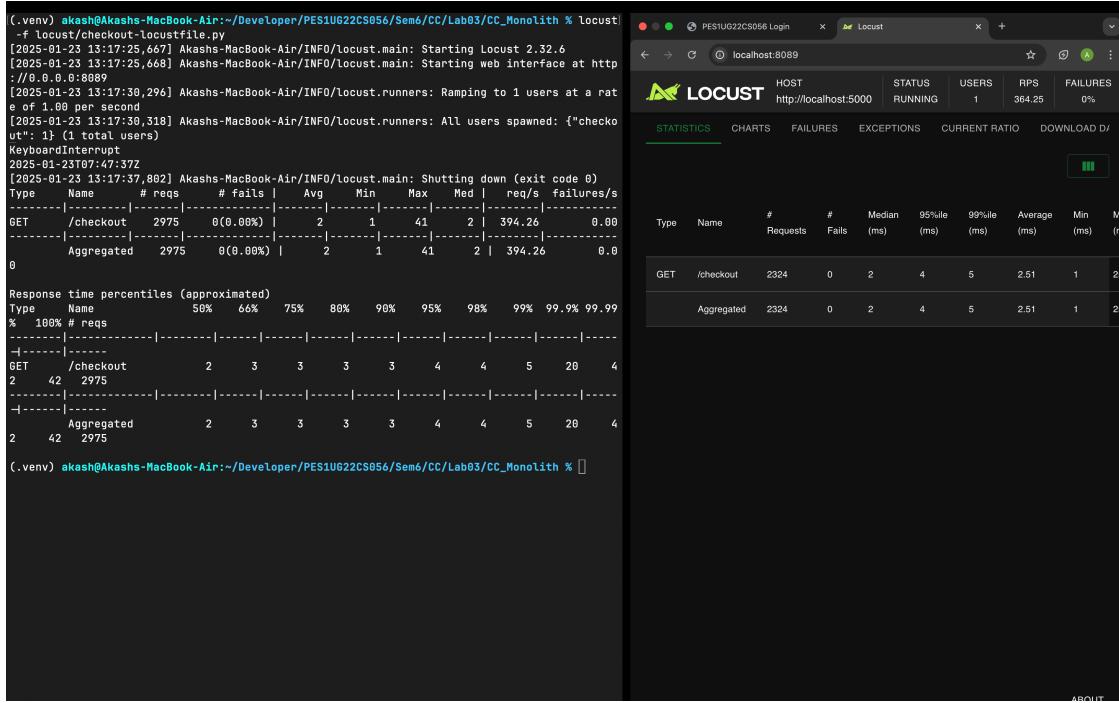
SS2:



SS3:

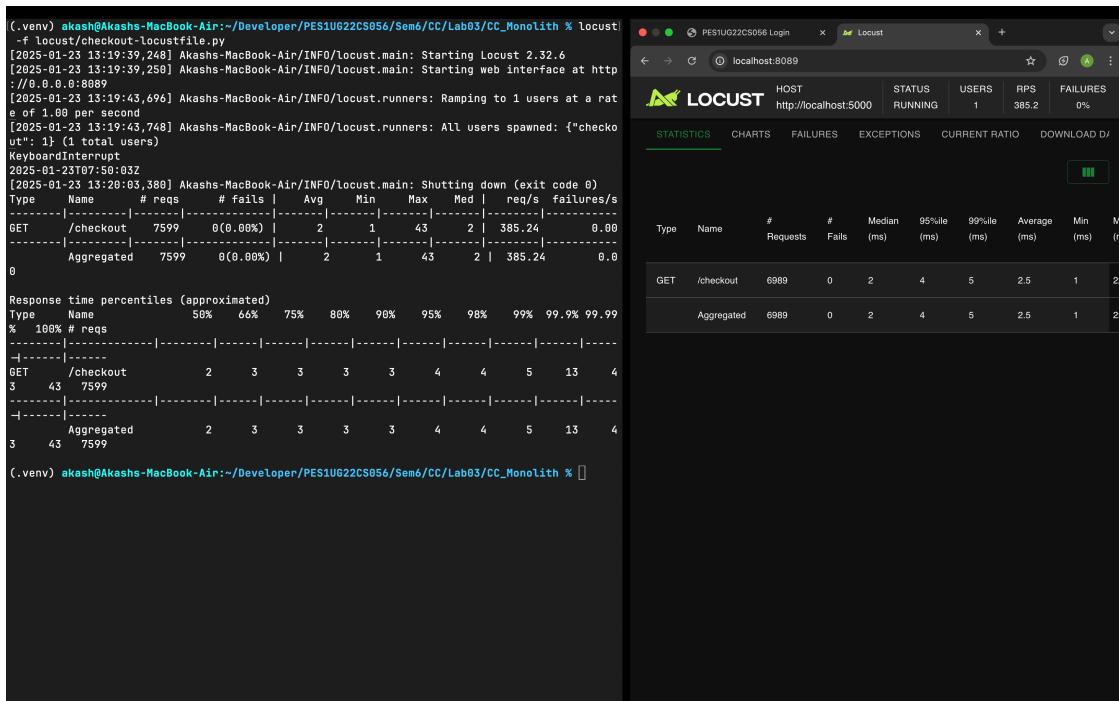


SS4:



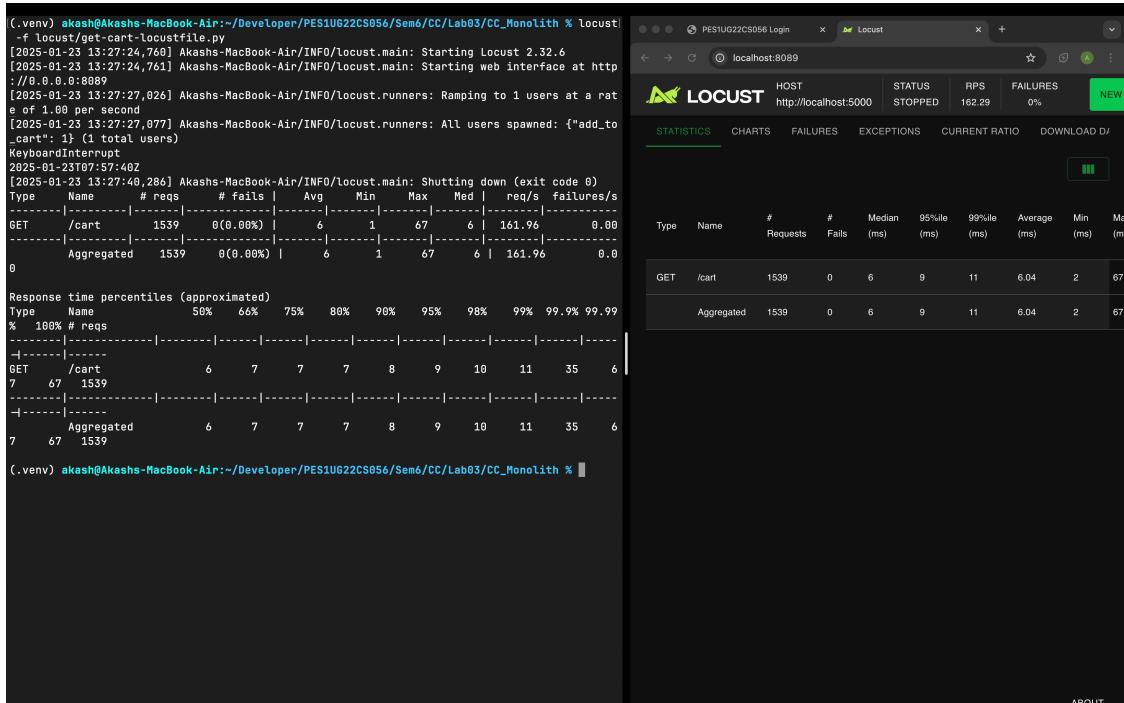
RPS: 364.25

SS5:



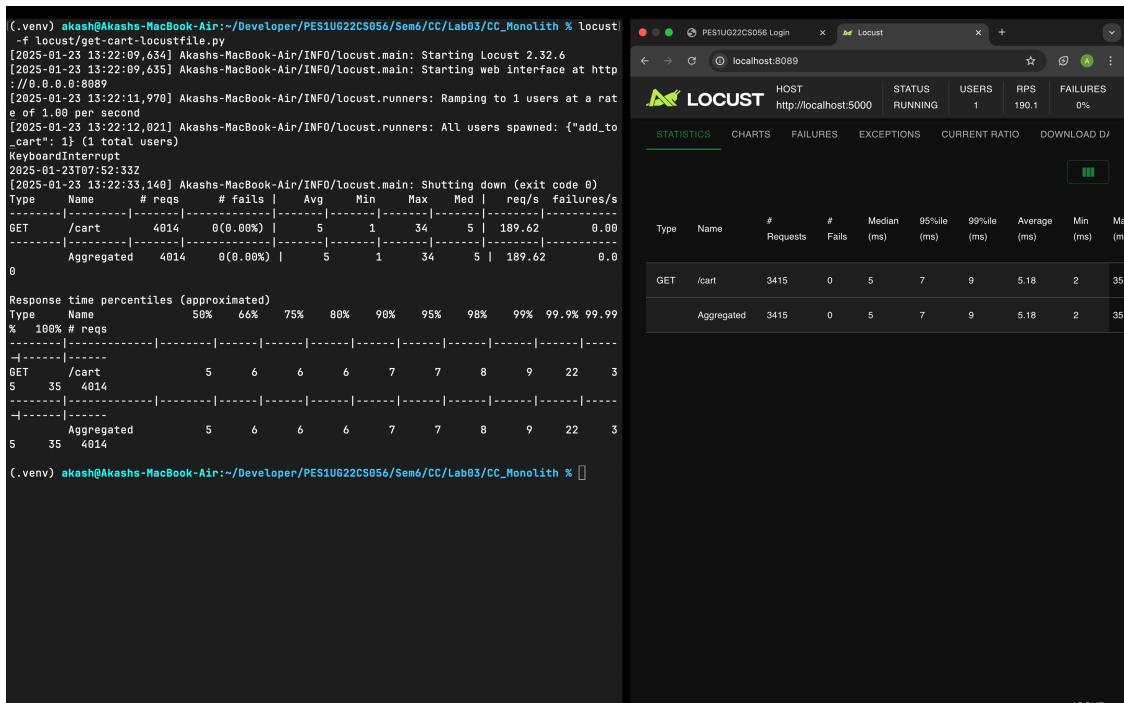
RPS: 385.2

SS6:



RPS: 162.29

SS7:

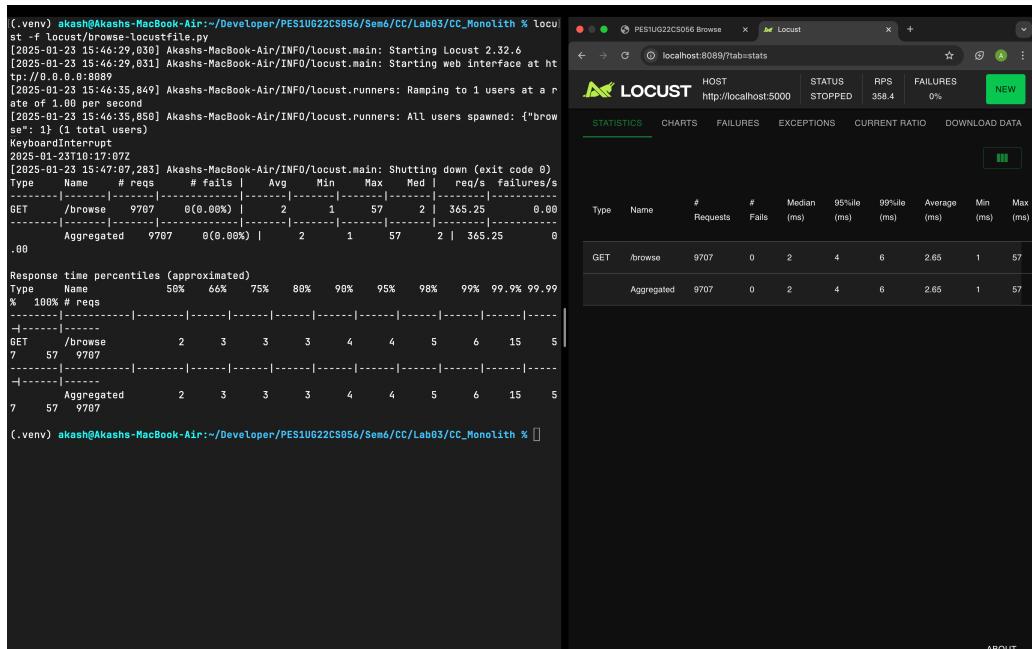


RPS: 190.1

Modifications made:

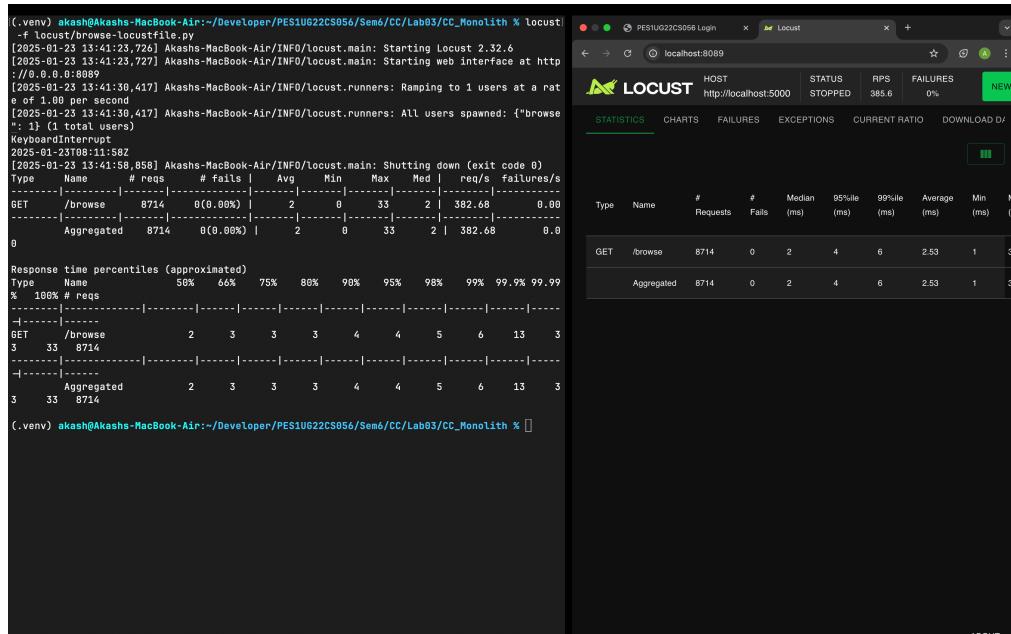
- **Replaced eval with json.loads:** The optimized code uses json.loads, which is safer and more efficient for parsing the cart contents.
- **Streamlined processing and added error handling:** The optimized code processes cart contents in a single loop and adds proper error handling for potential issues.

SS8:



RPS: 358.4

SS9:



RPS: 385.6

Modifications made:

- Static load method:** The optimized code marks load as `@staticmethod`, making it more appropriate for a utility function that doesn't rely on instance attributes.
- List comprehension in list_products:** The optimized code uses a list comprehension to directly create the list of products, making it more concise and readable.
- Validation in add_product:** The optimized code adds validation to ensure that the required fields (`id`, `name`, `description`, `cost`) are present in the product dictionary, preventing potential errors.