

Cloud Computing Lab 2

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Section: E

Short explanation of Optimizations

/checkout Route

- Bottleneck: Inefficient logic that calculated total cost using repetitive operations.
- Change Made: Replaced inefficient computation with direct summation logic.
- Result: Reduced average response time and improved efficiency.

/events Route

- Bottleneck: A CPU-intensive loop performing unnecessary calculations on every request.
- Change Made: Removed the wasteful loop and directly returned database results.
- Result: Significant reduction in response time and improved request handling under load.

/my-events Route

- Bottleneck: Artificial loop causing unnecessary CPU overhead.
- Change Made: Removed the redundant loop to avoid extra processing.
- Result: Lower response time and better performance during load testing.