

# CC LAB 2

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## **Short Explanation of Optimization**

*/checkout Route*

- Issue Identified: The total cost was being calculated using repetitive and inefficient operations.
- Optimization Applied: The logic was simplified by using direct summation instead of repeated calculations.
- Outcome: Average response time decreased, leading to better overall efficiency.

*/events Route*

- Issue Identified: Each request triggered a CPU-heavy loop that performed unnecessary computations.

- Optimization Applied: The redundant loop was removed, and the route now directly returns results from the database.
- Outcome: Response time was significantly reduced, improving performance under high load.

#### /my-events Route

- Issue Identified: An artificial loop was introducing avoidable CPU overhead.
- Optimization Applied: The unnecessary loop was eliminated to prevent extra processing.
- Outcome: Faster response times and improved performance during load testing.