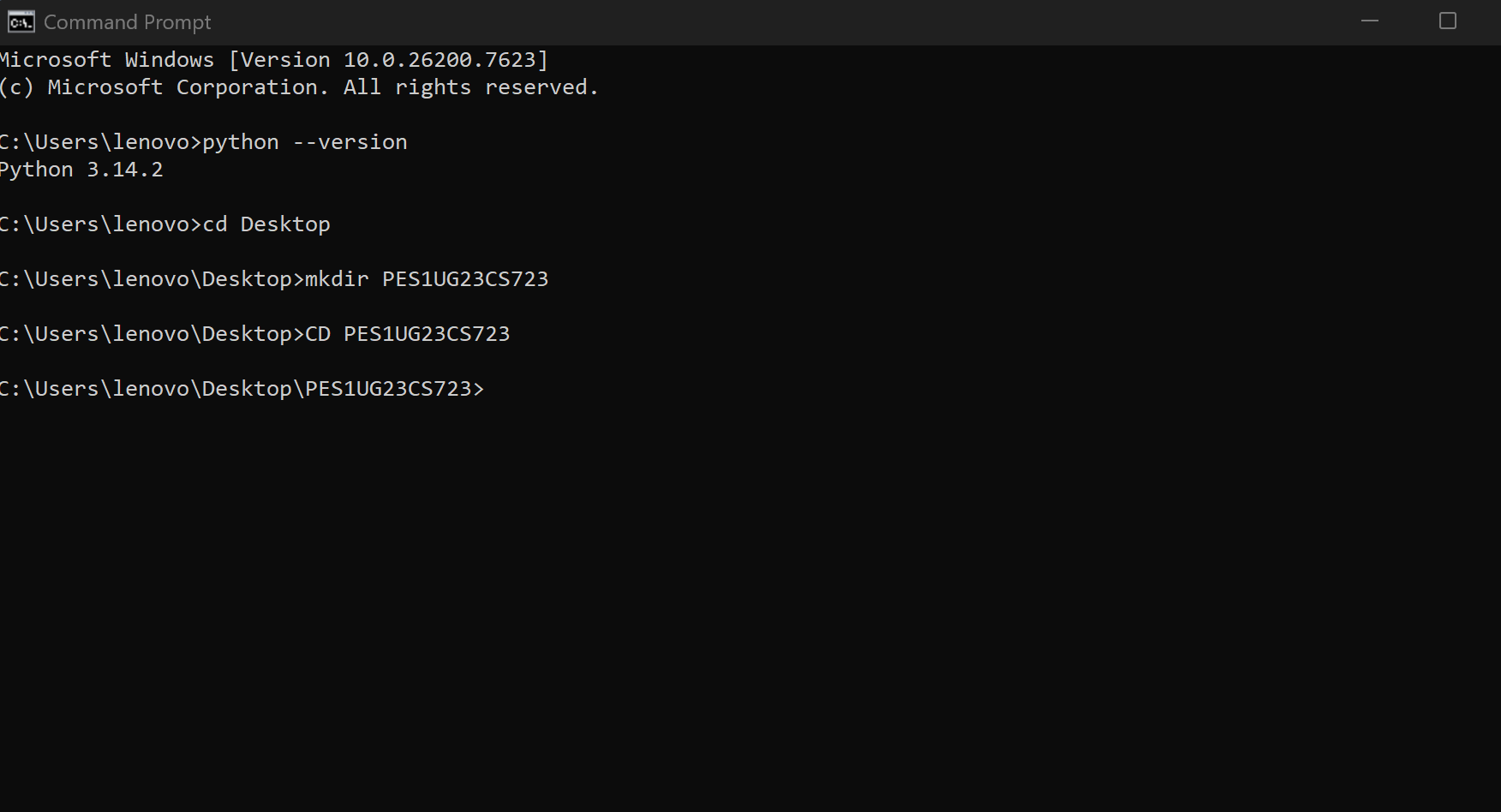
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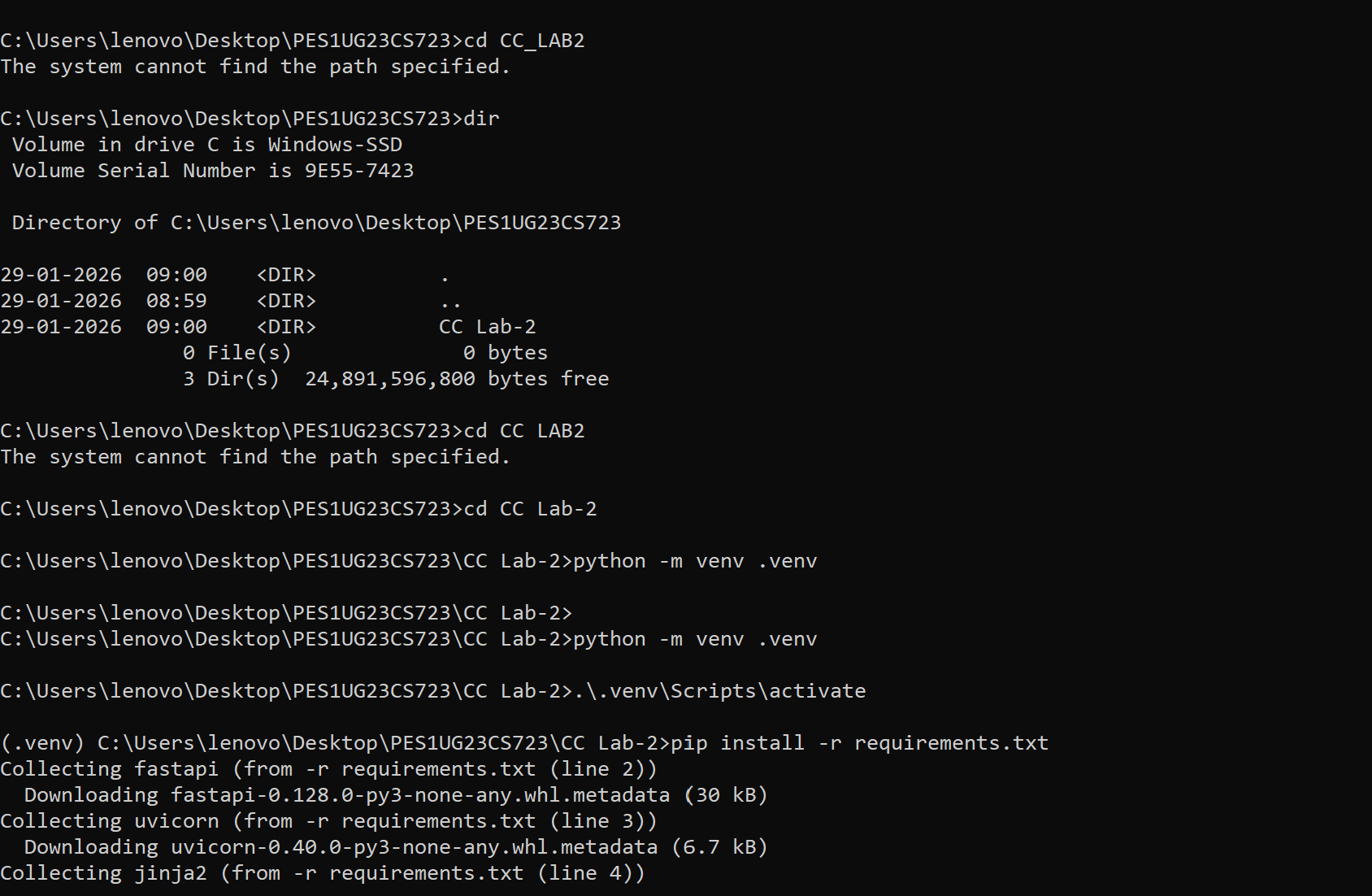
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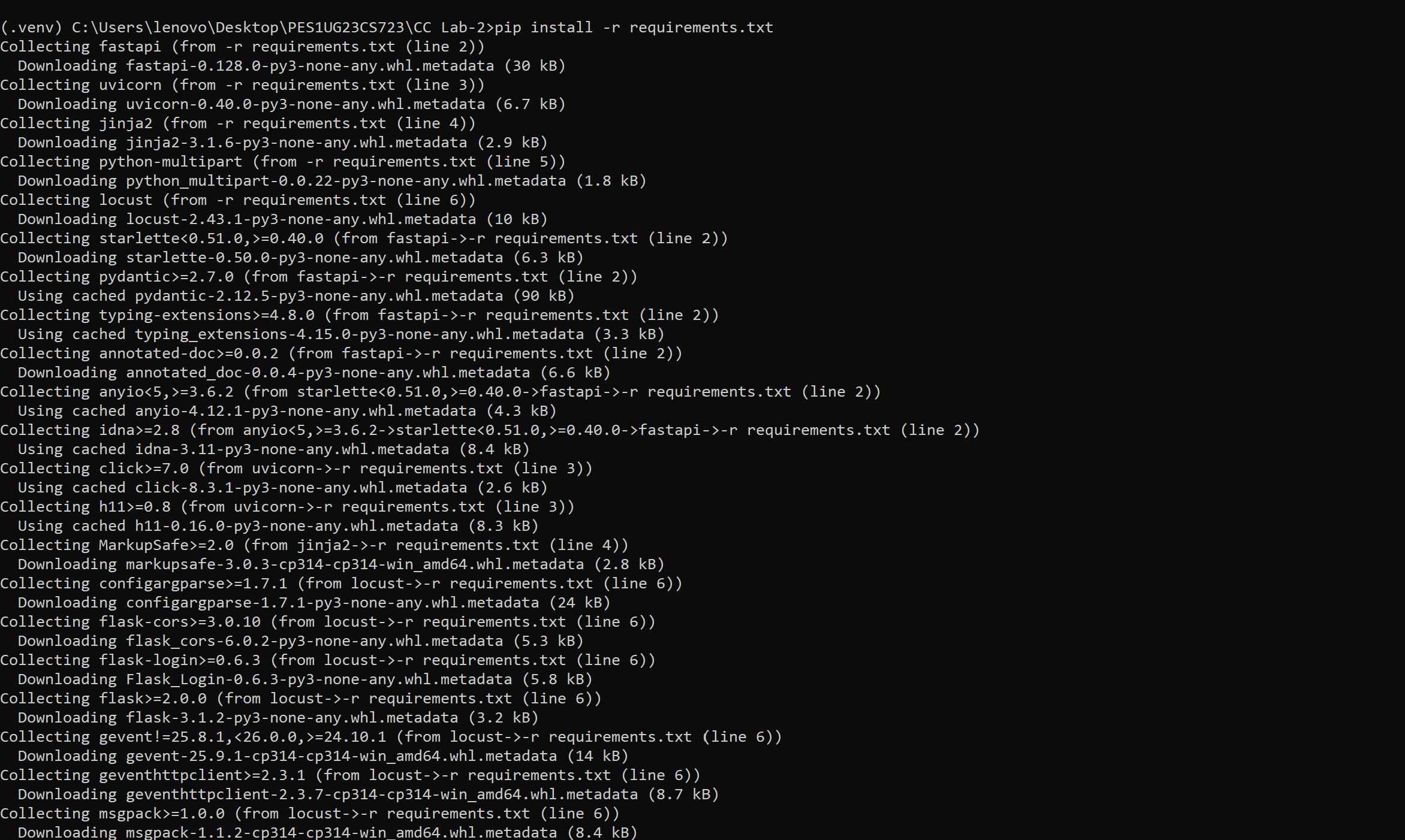
**L SECTION**

**CC LAB 2**

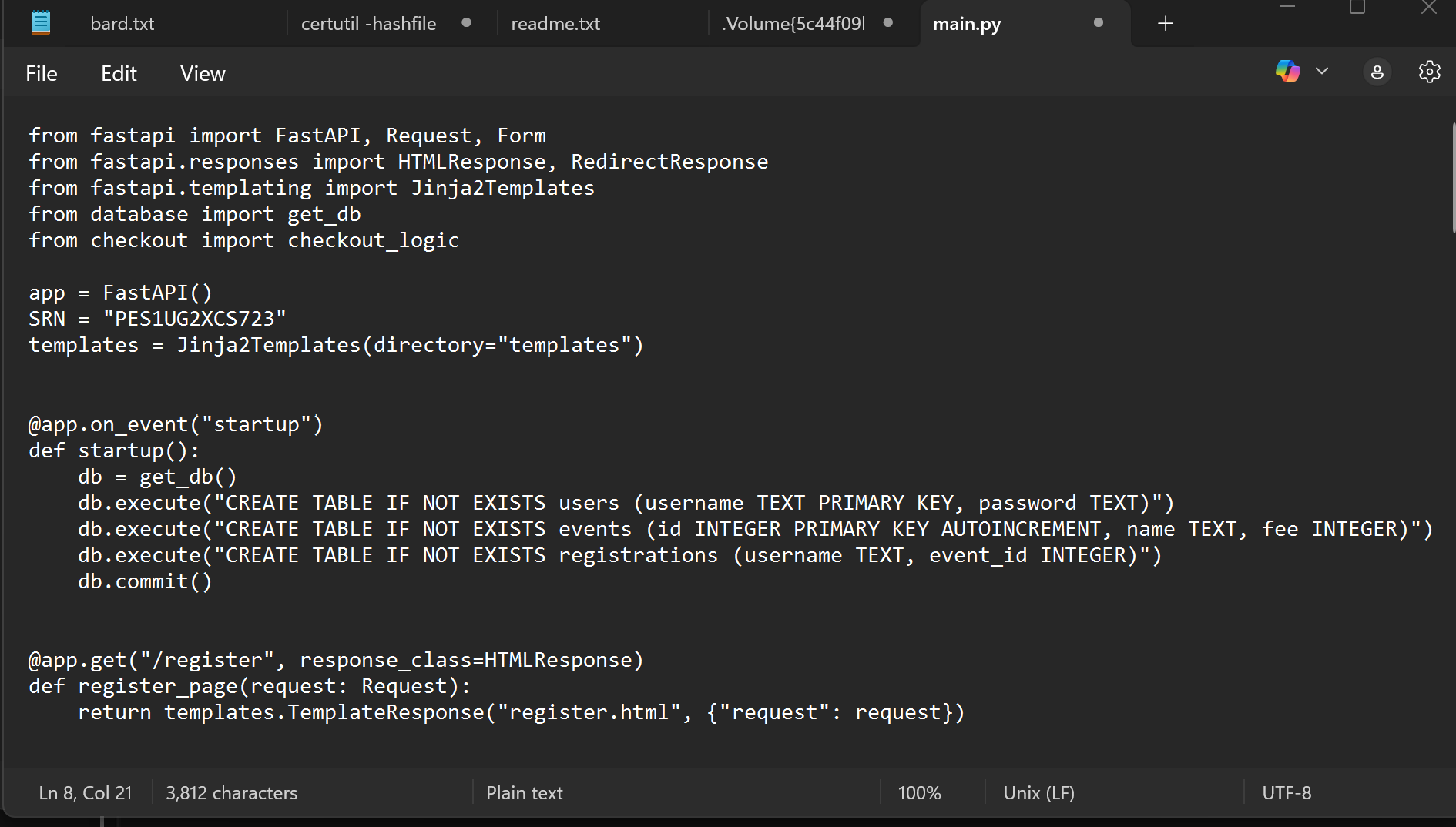
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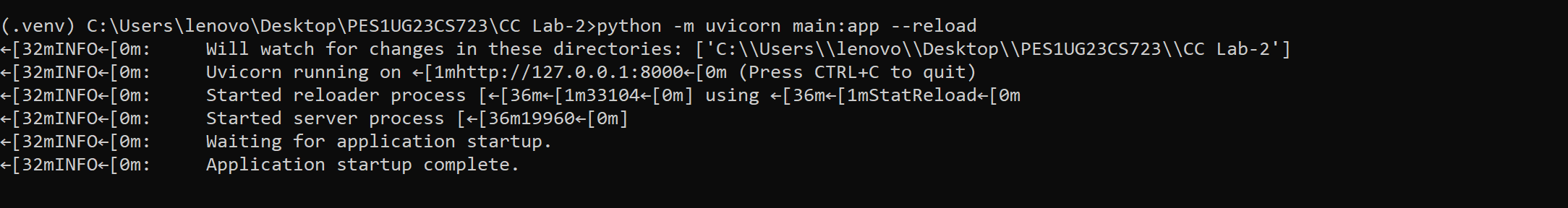




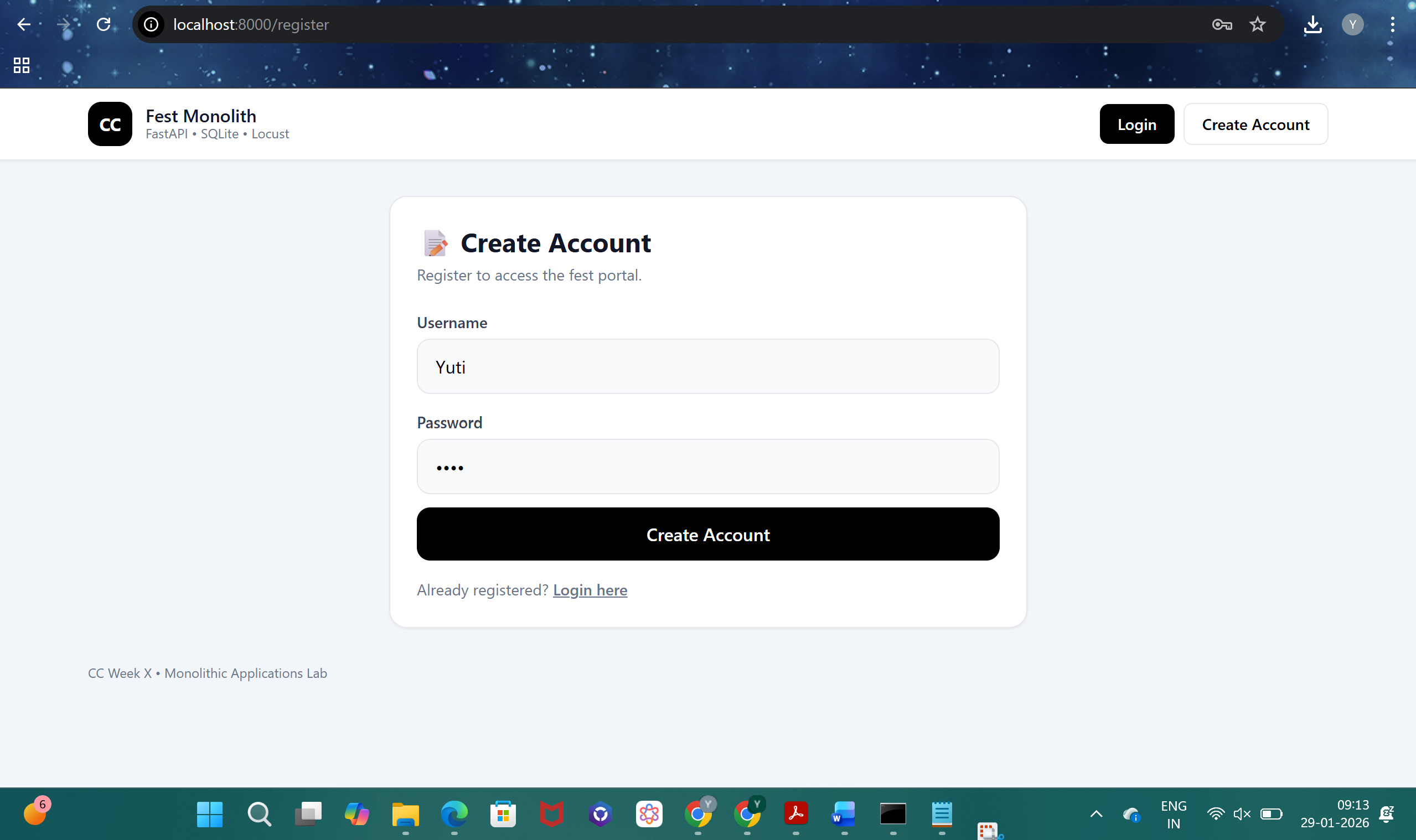


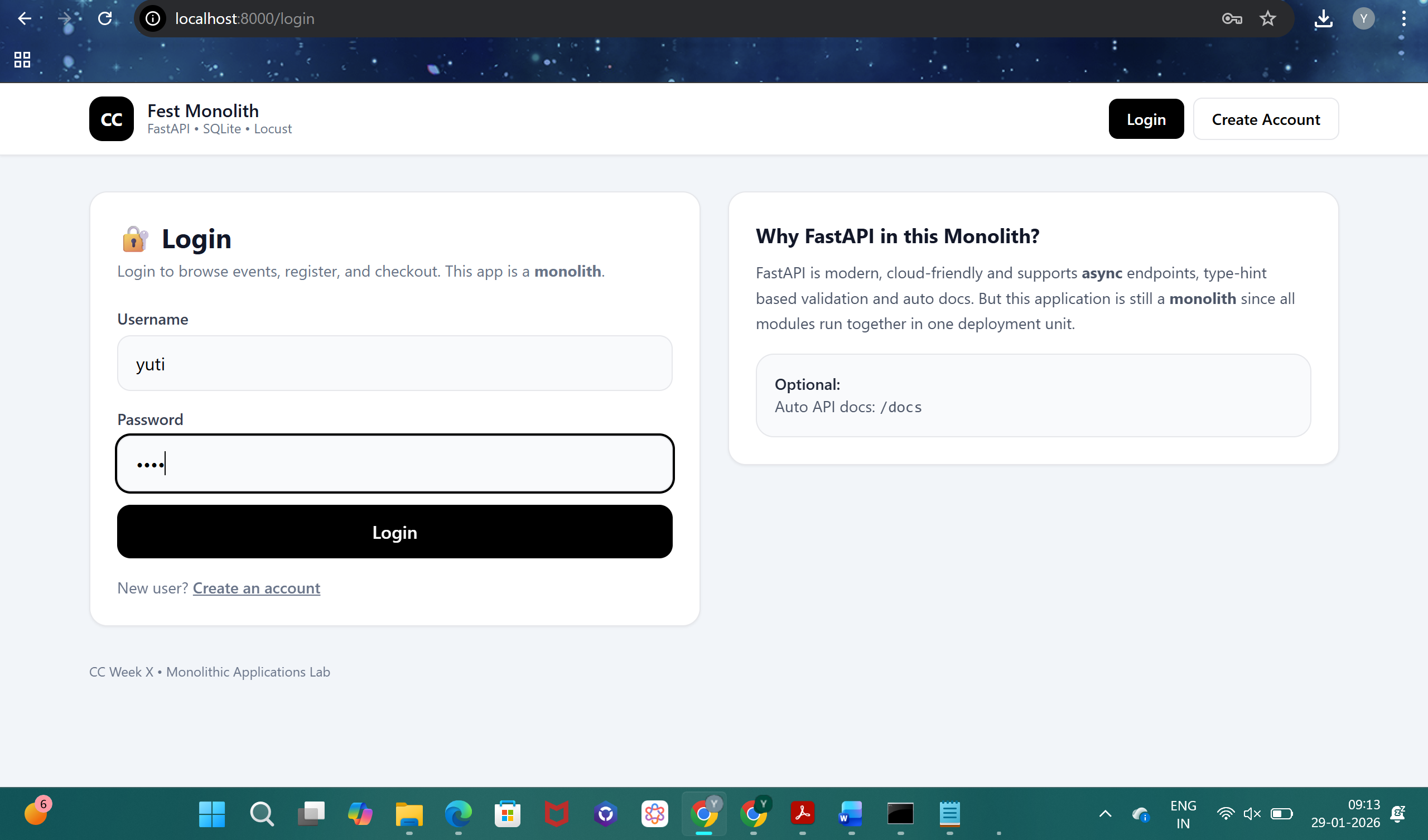


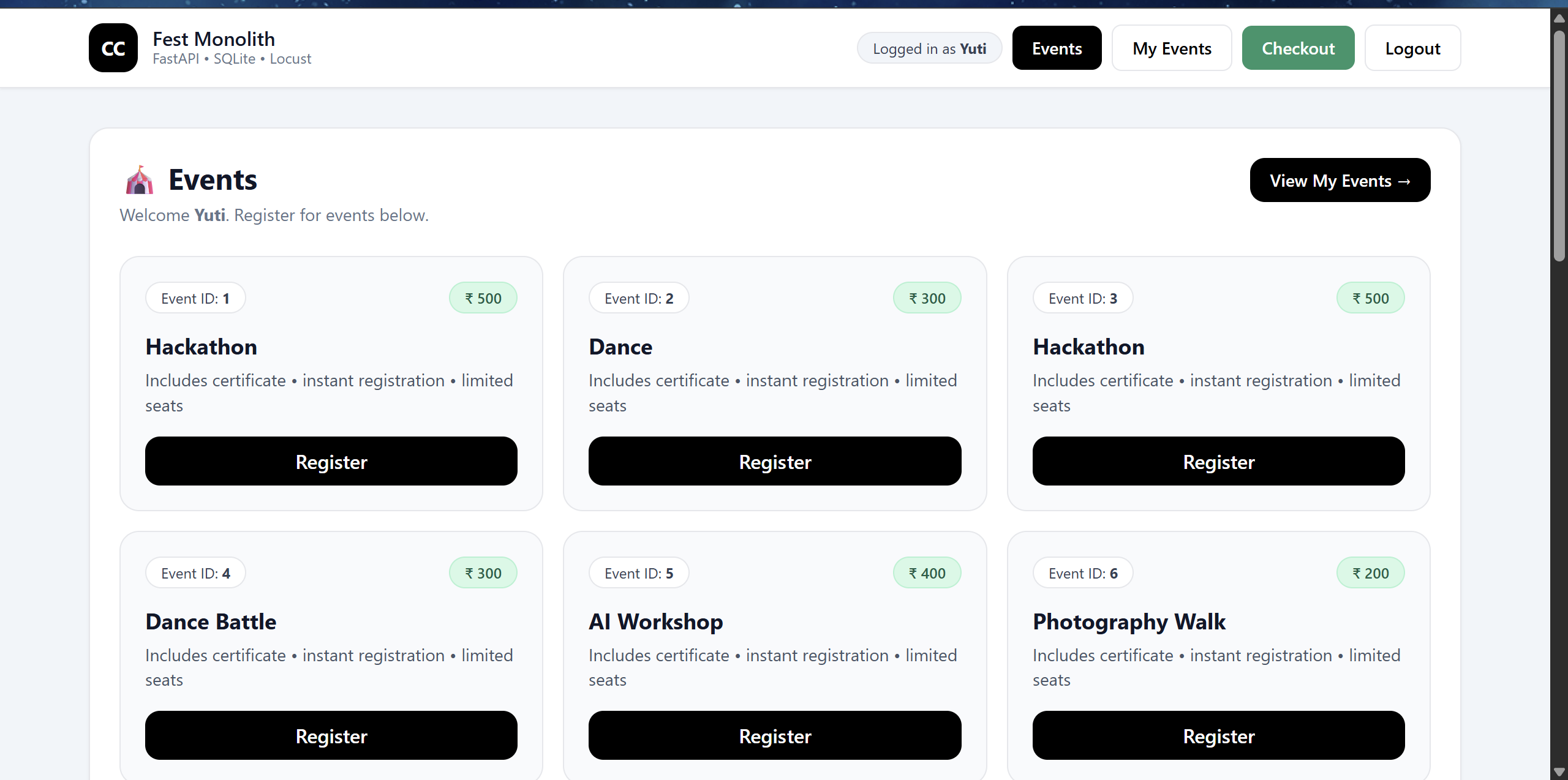




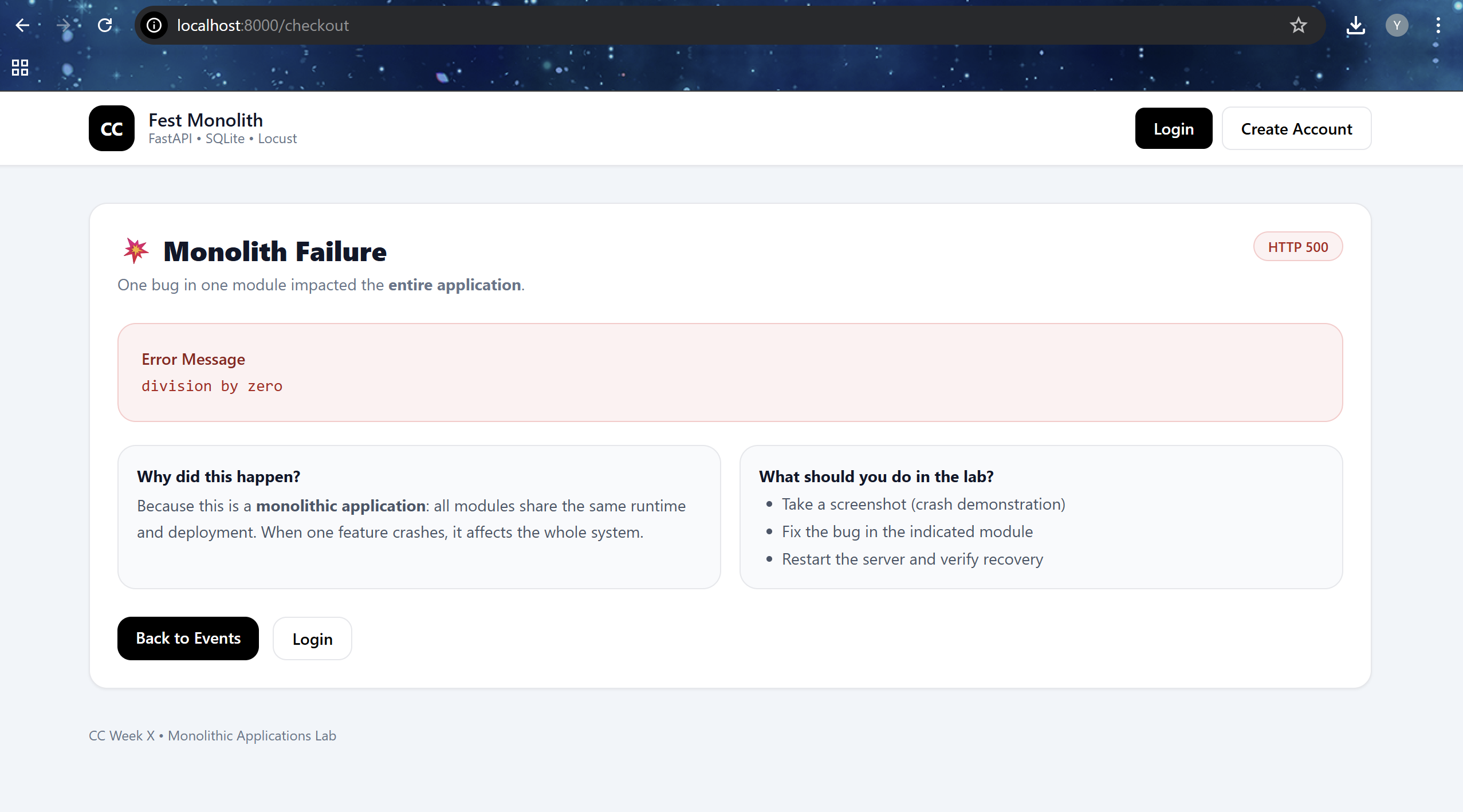
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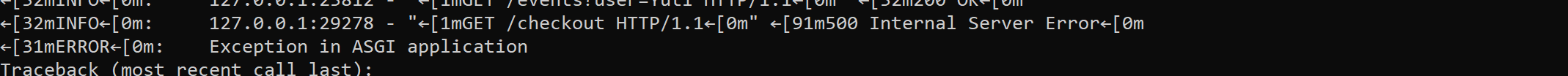


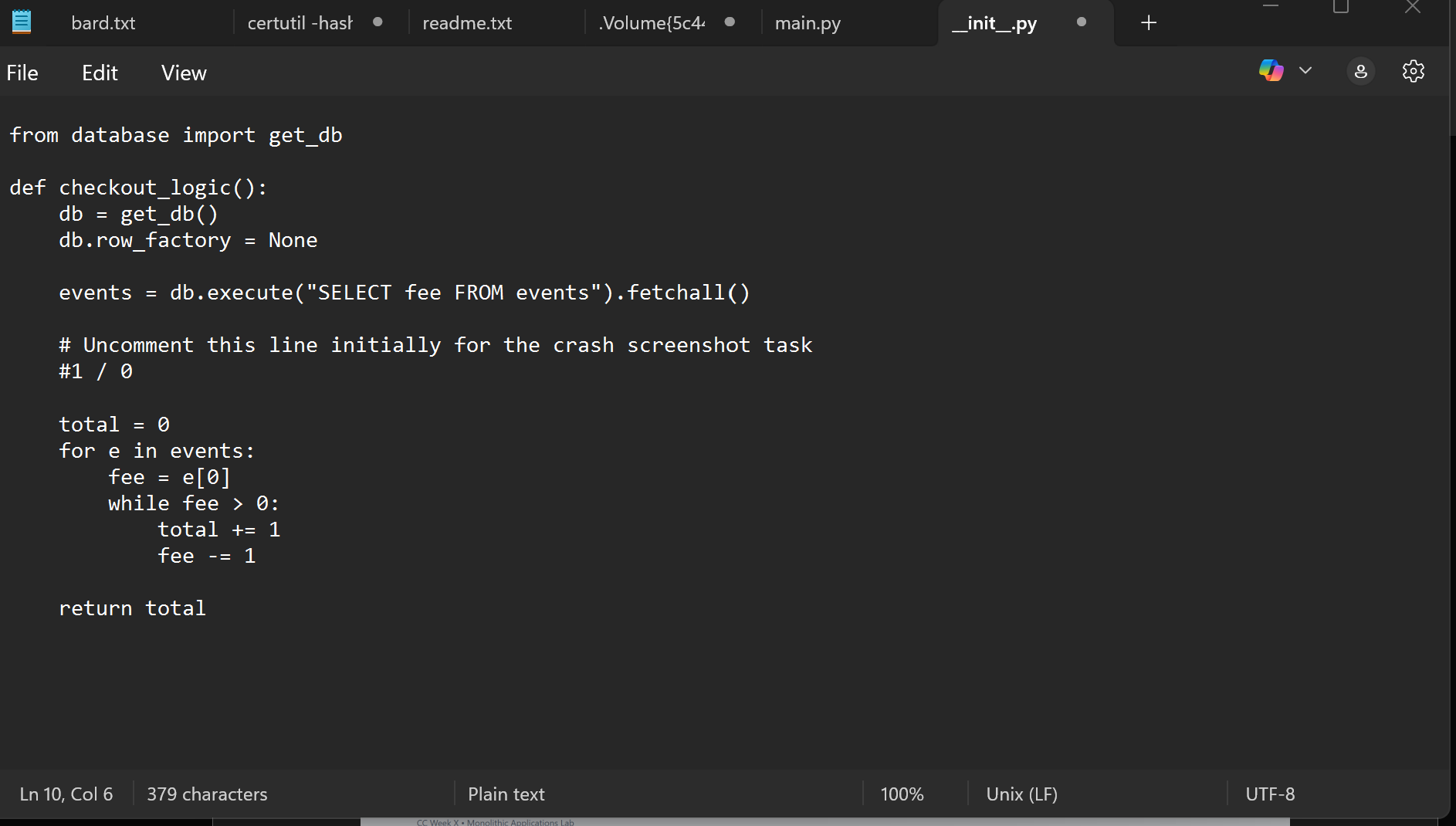




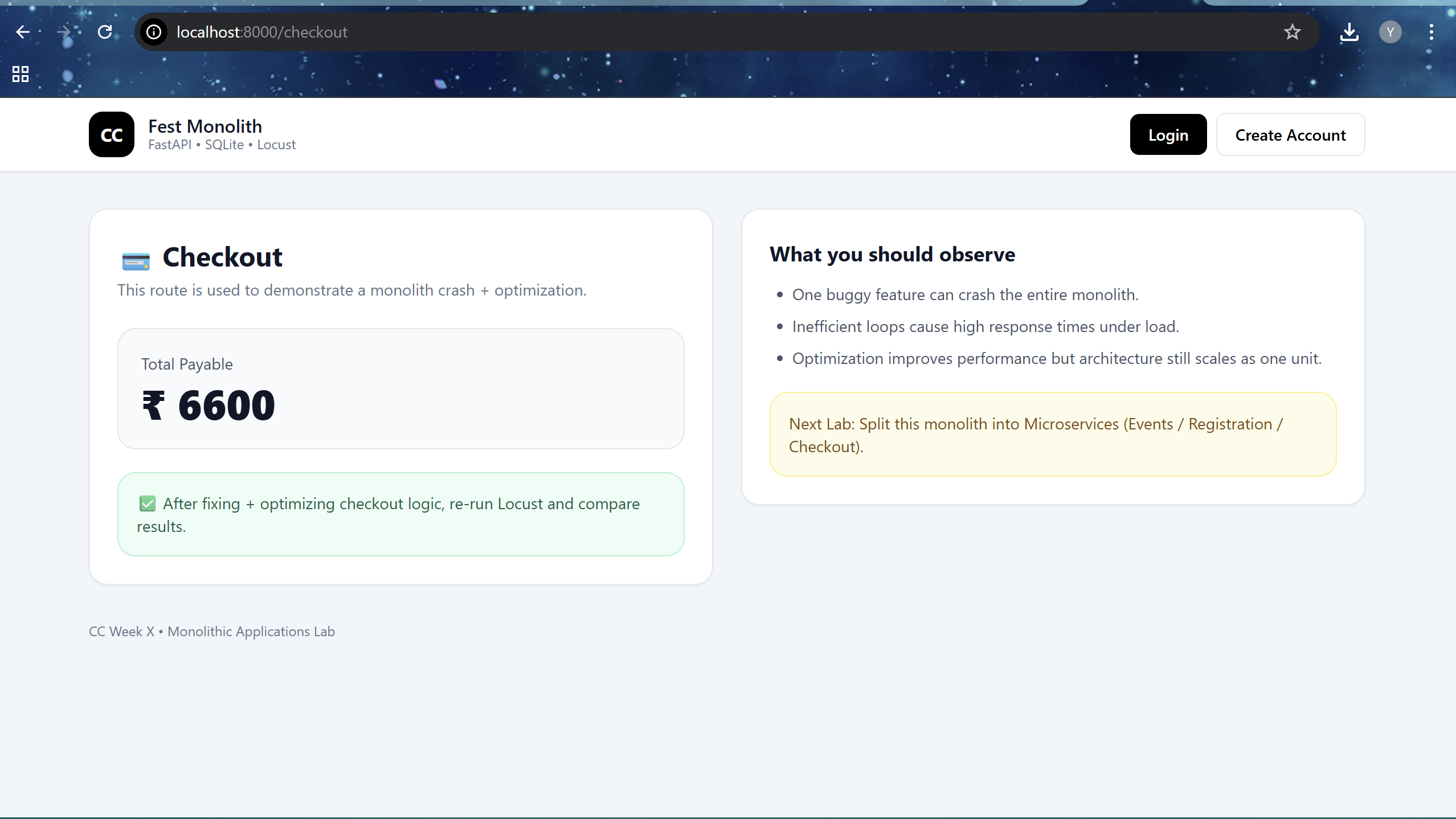
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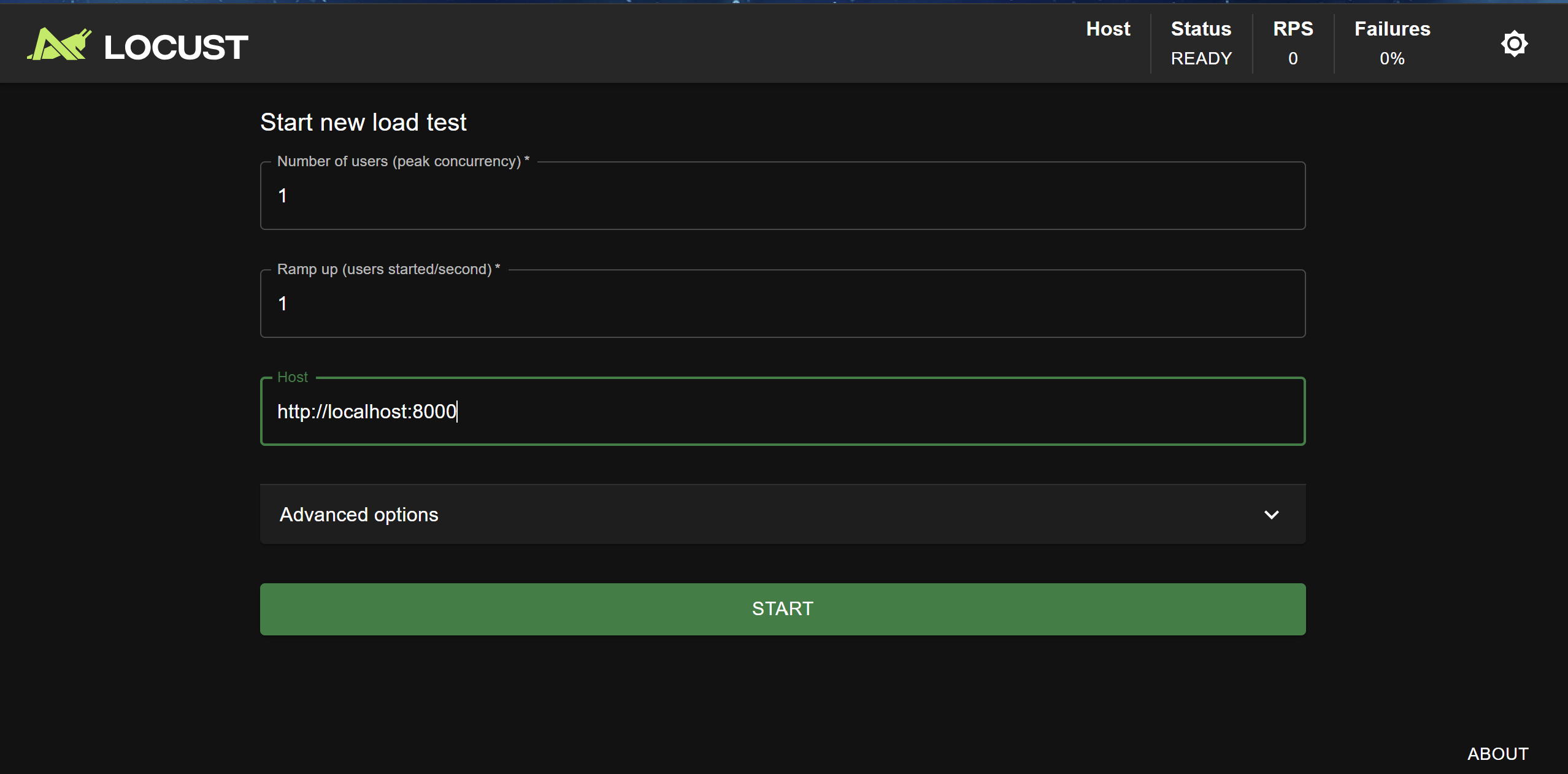


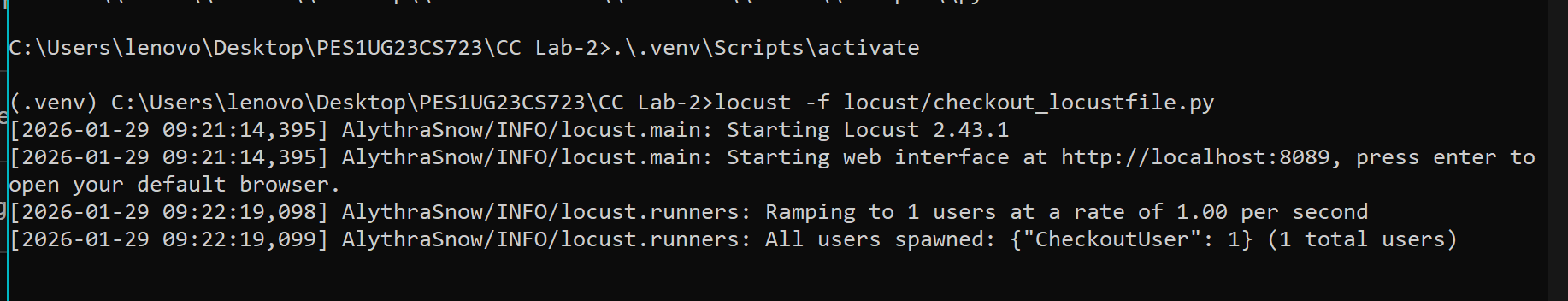


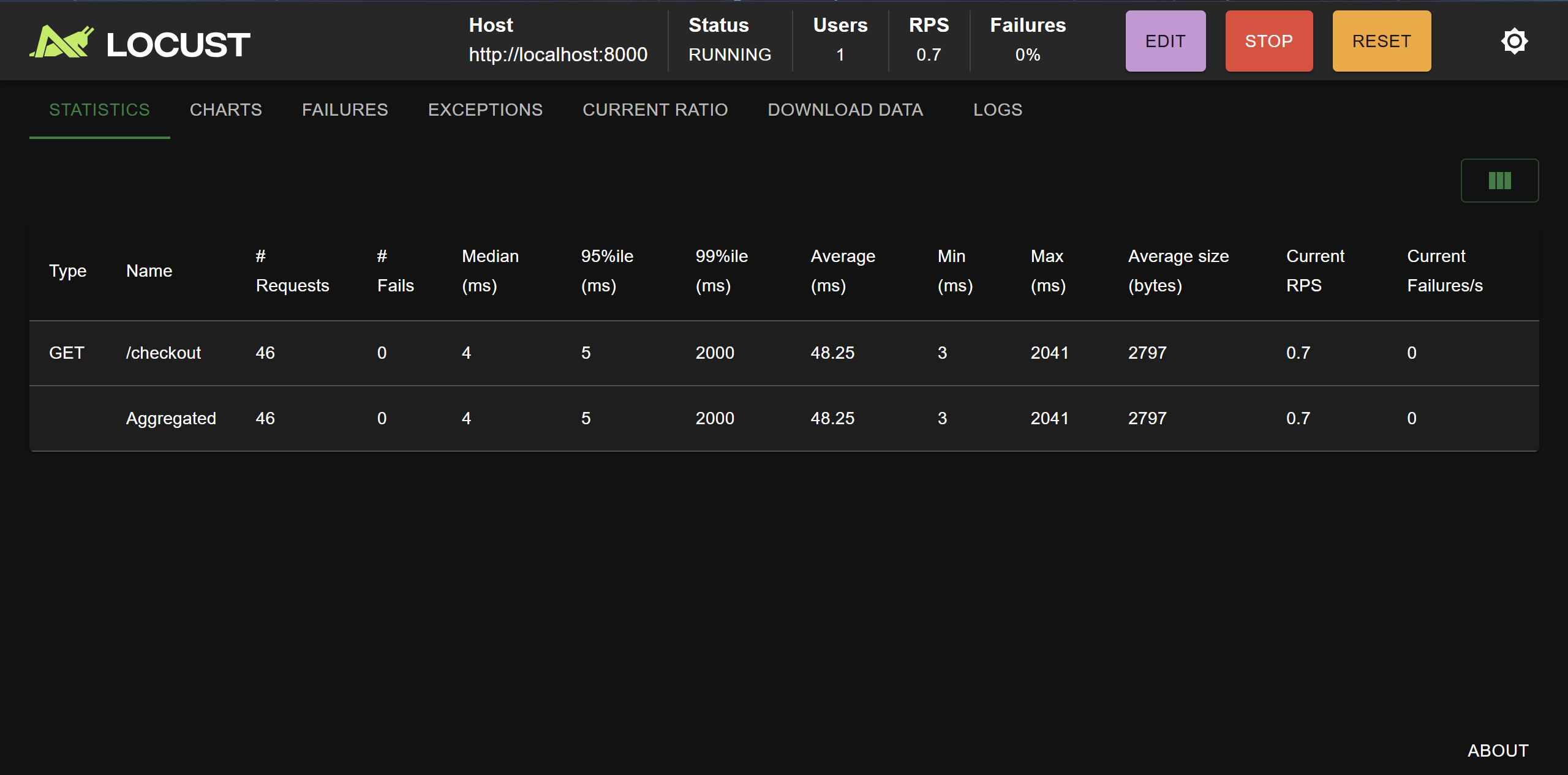
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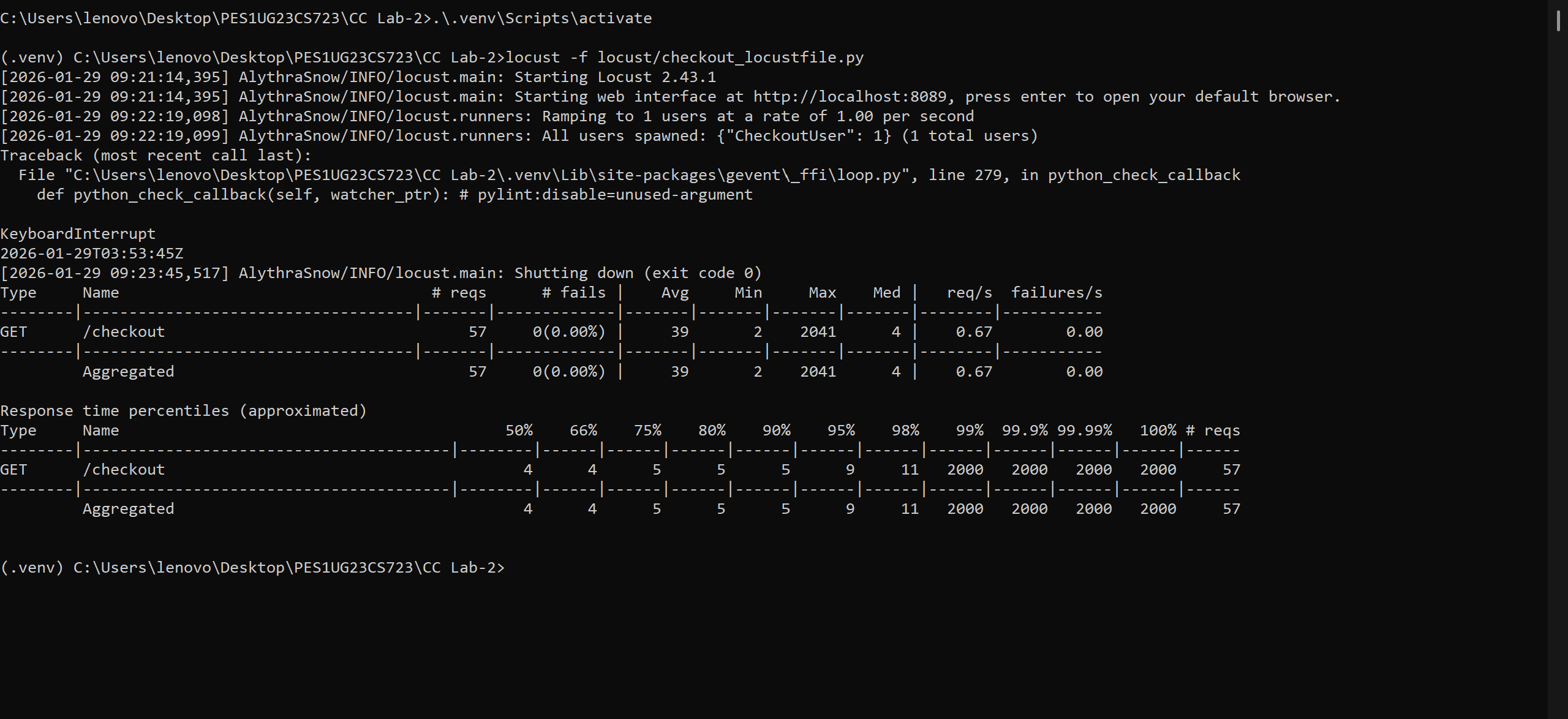


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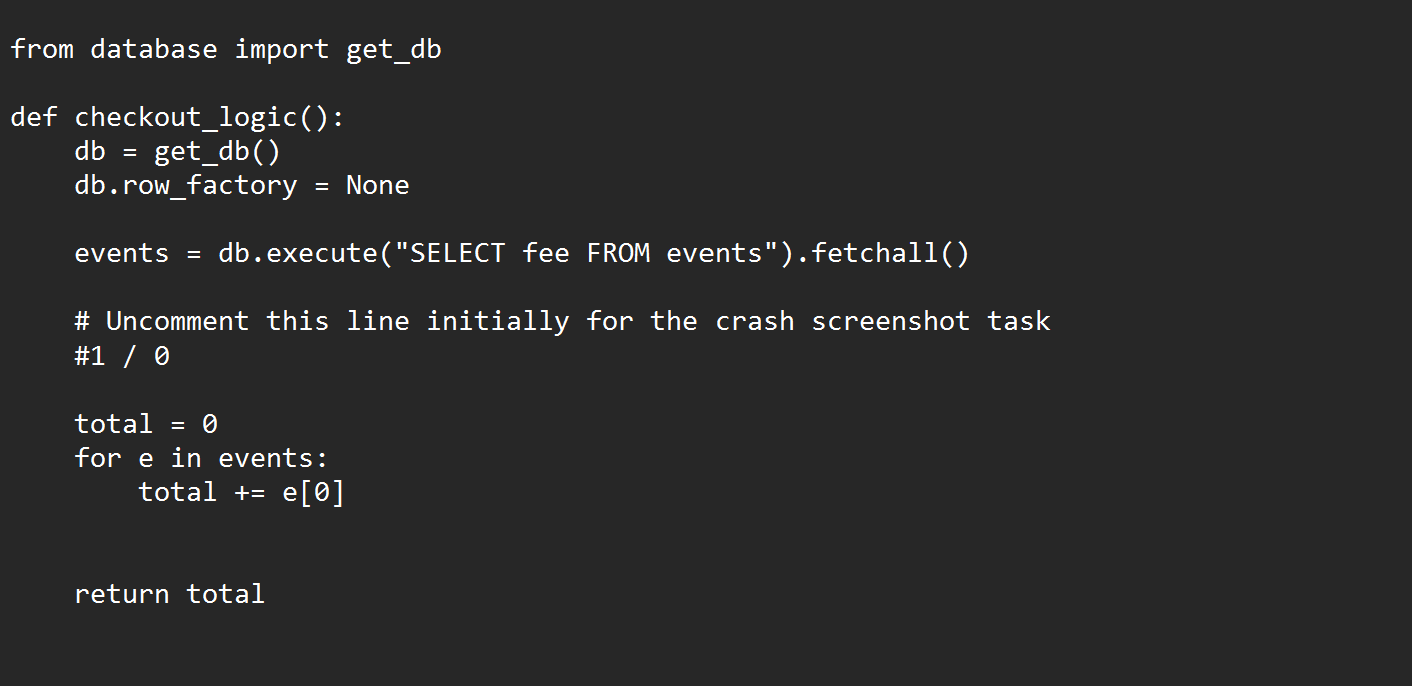


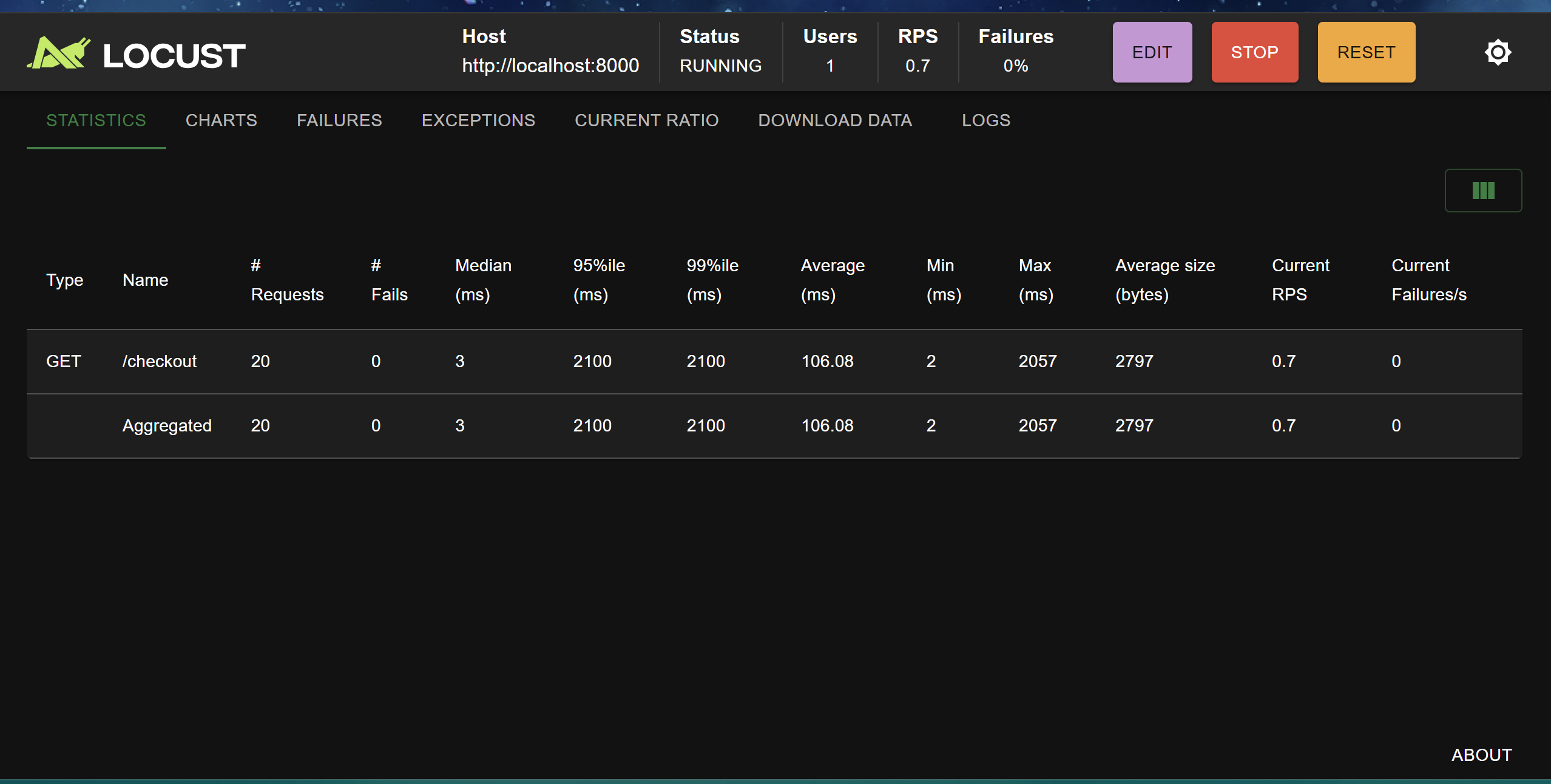


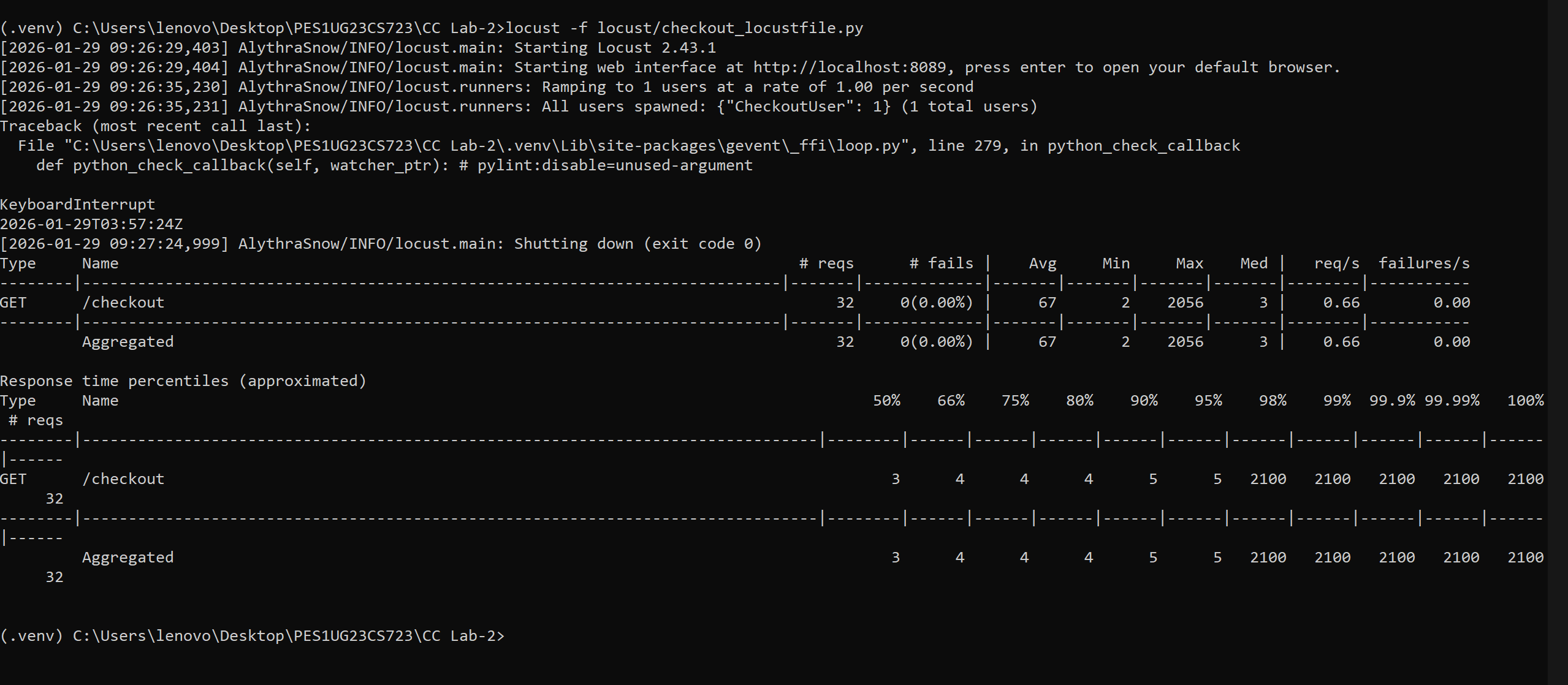




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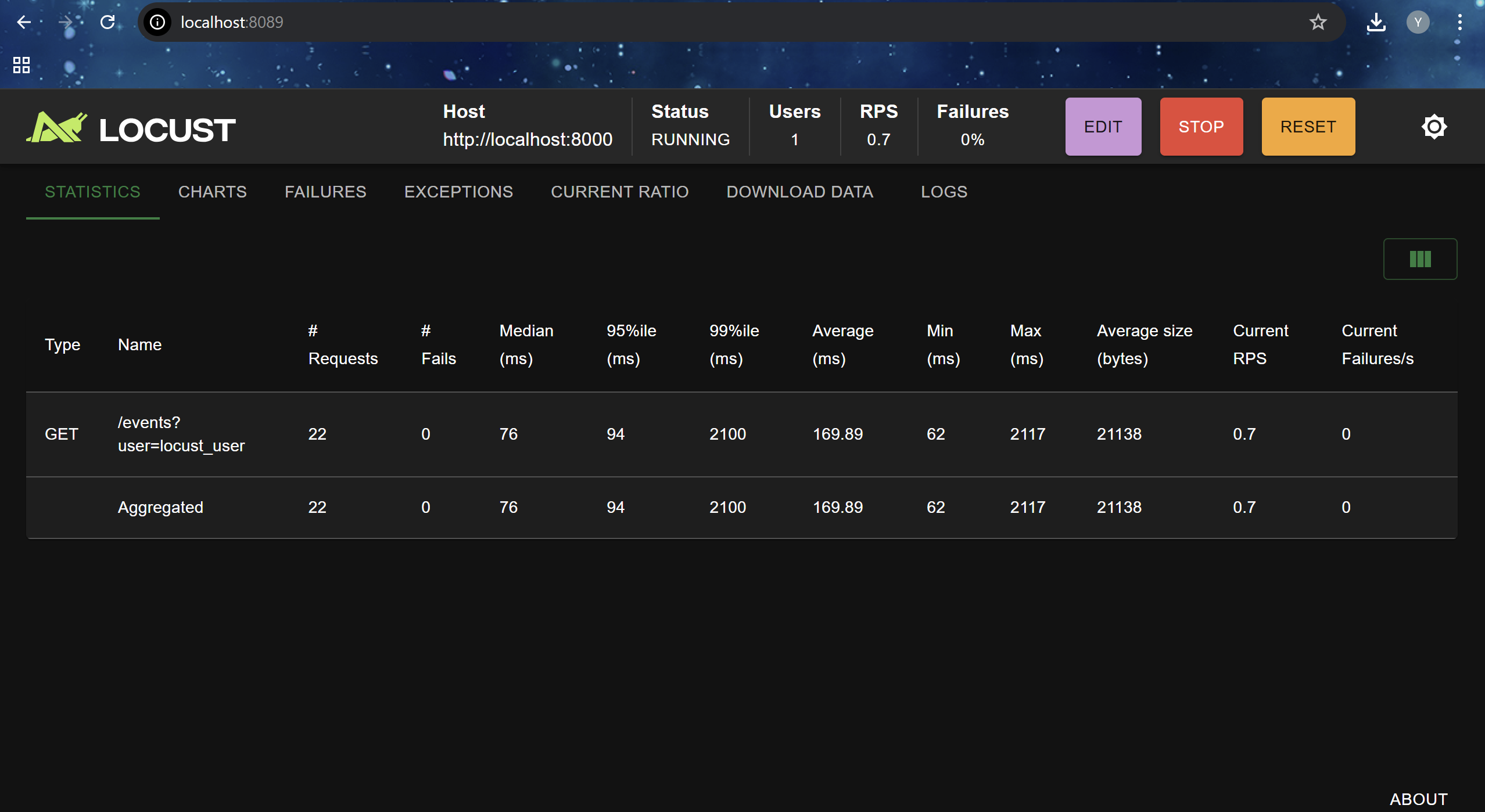


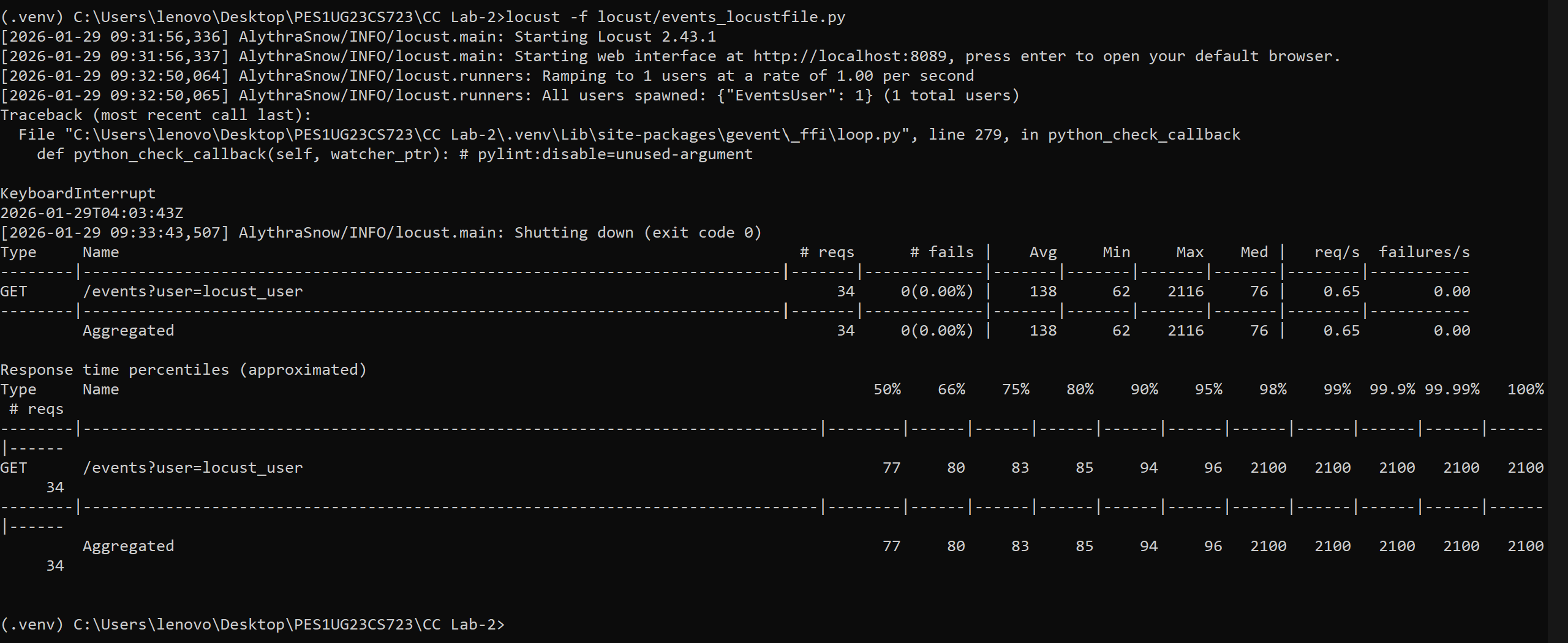


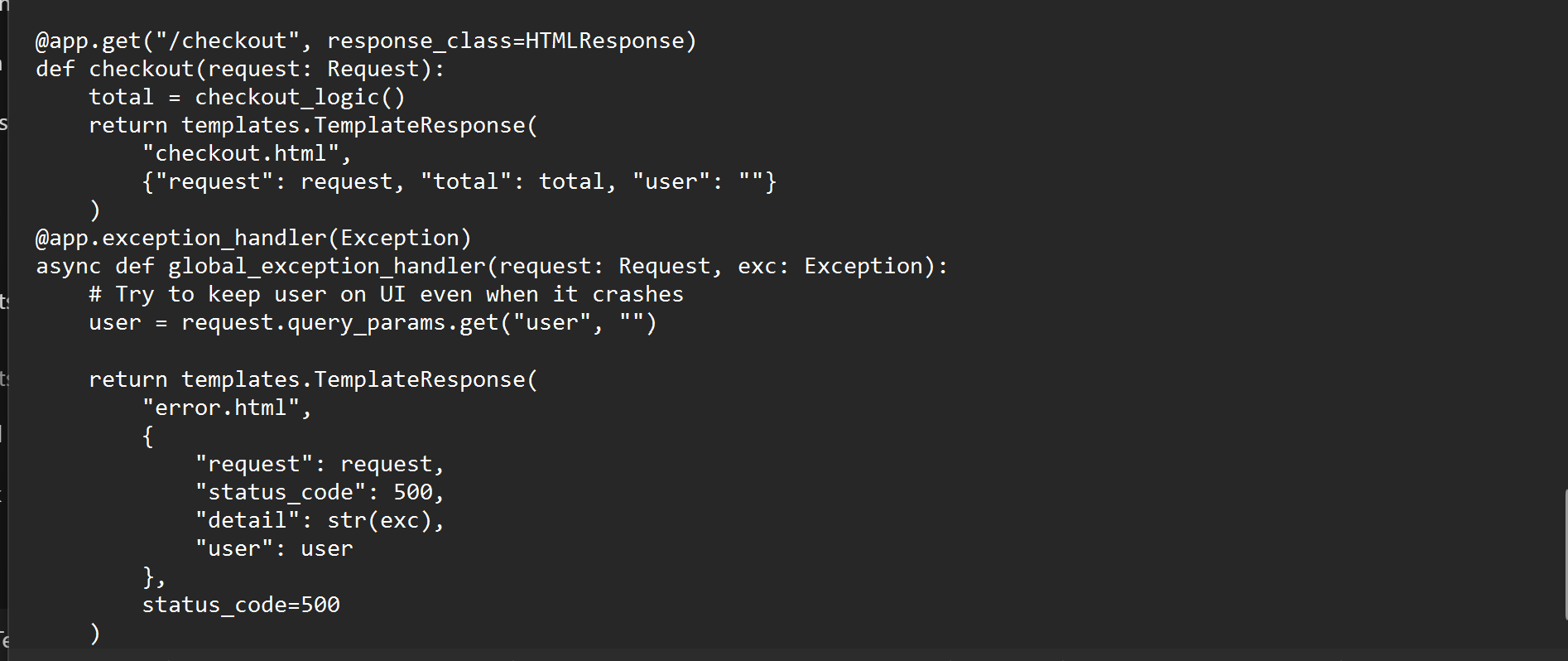


**TASK 7**

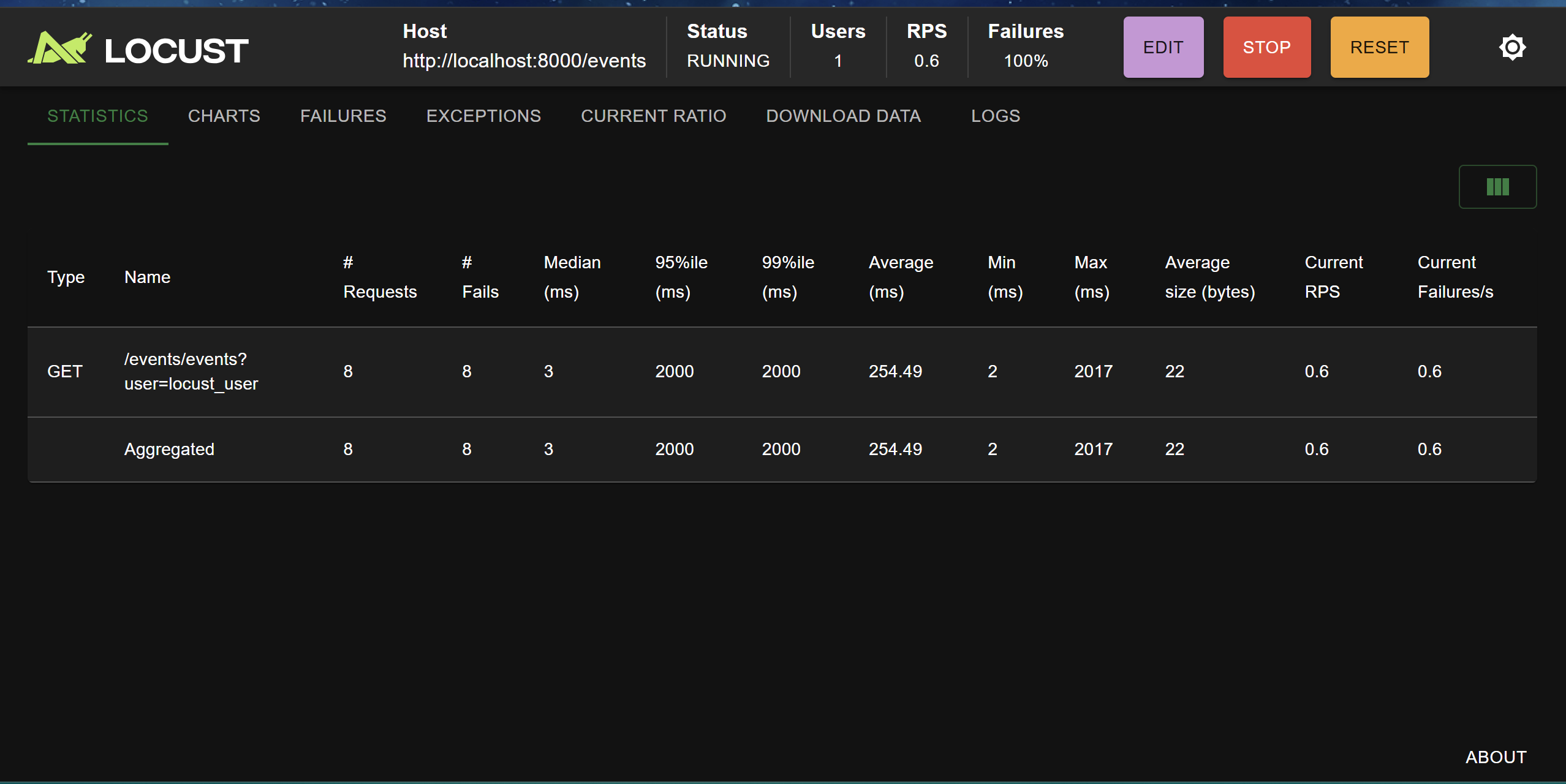
ROUTE 1

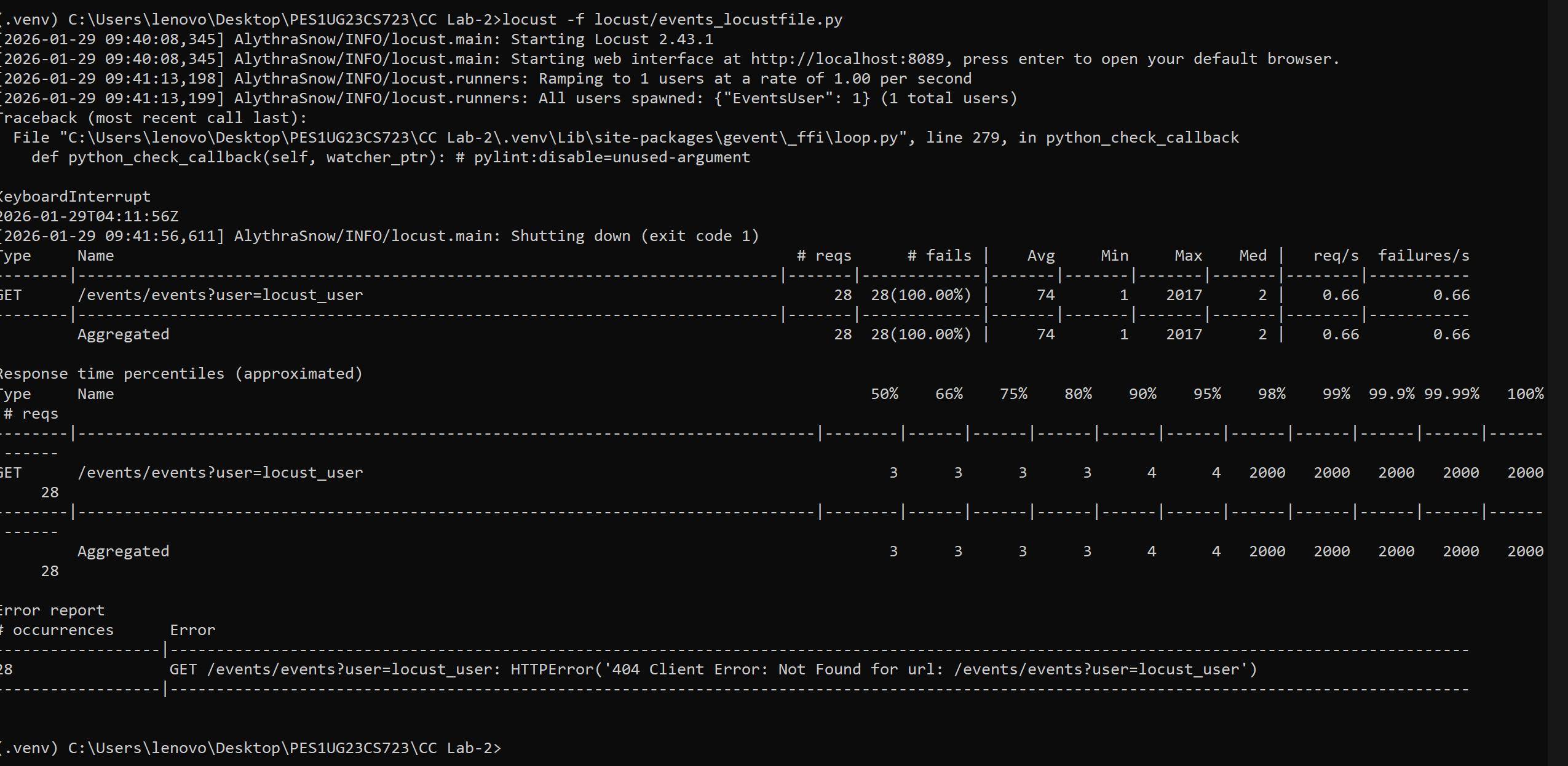




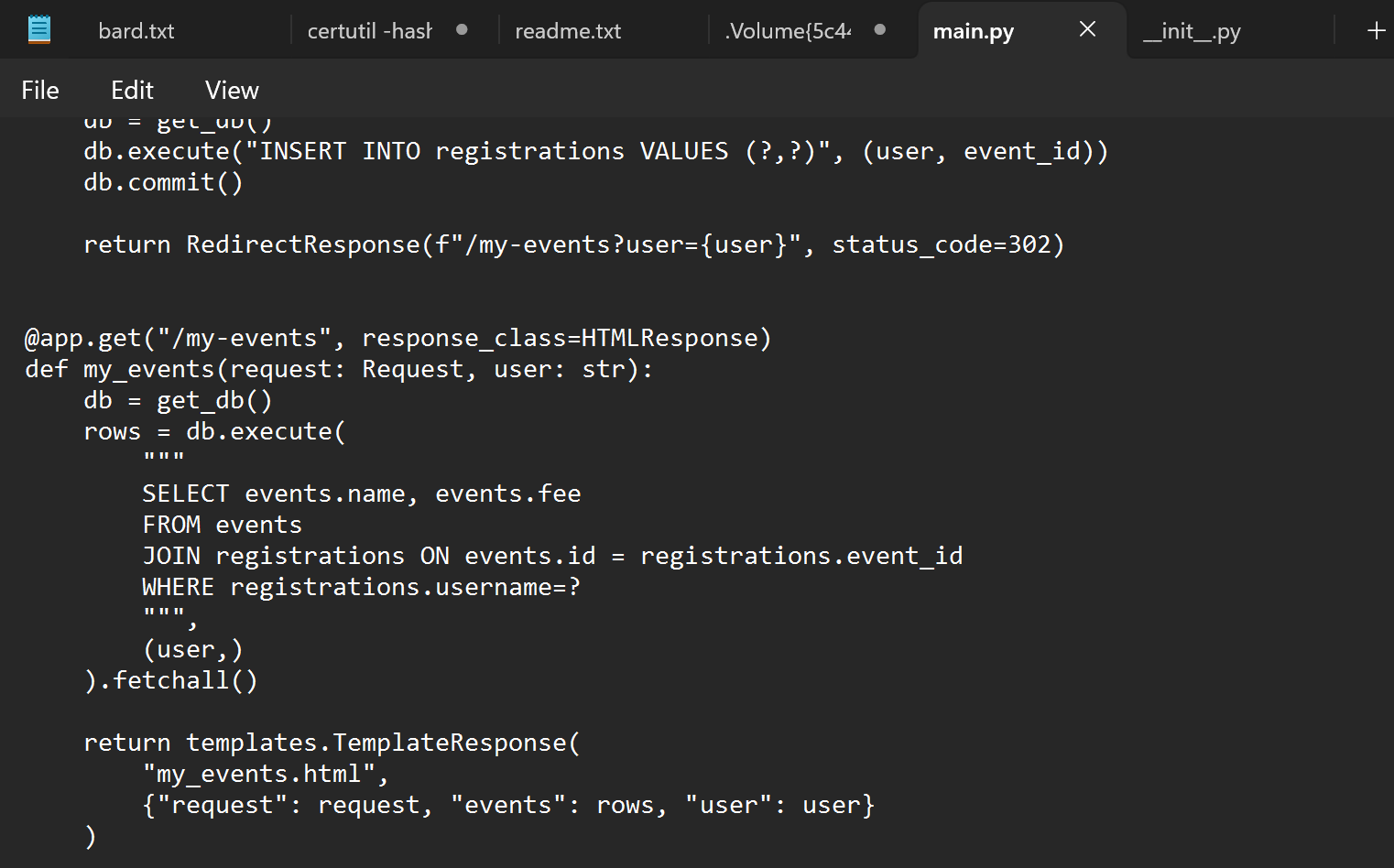


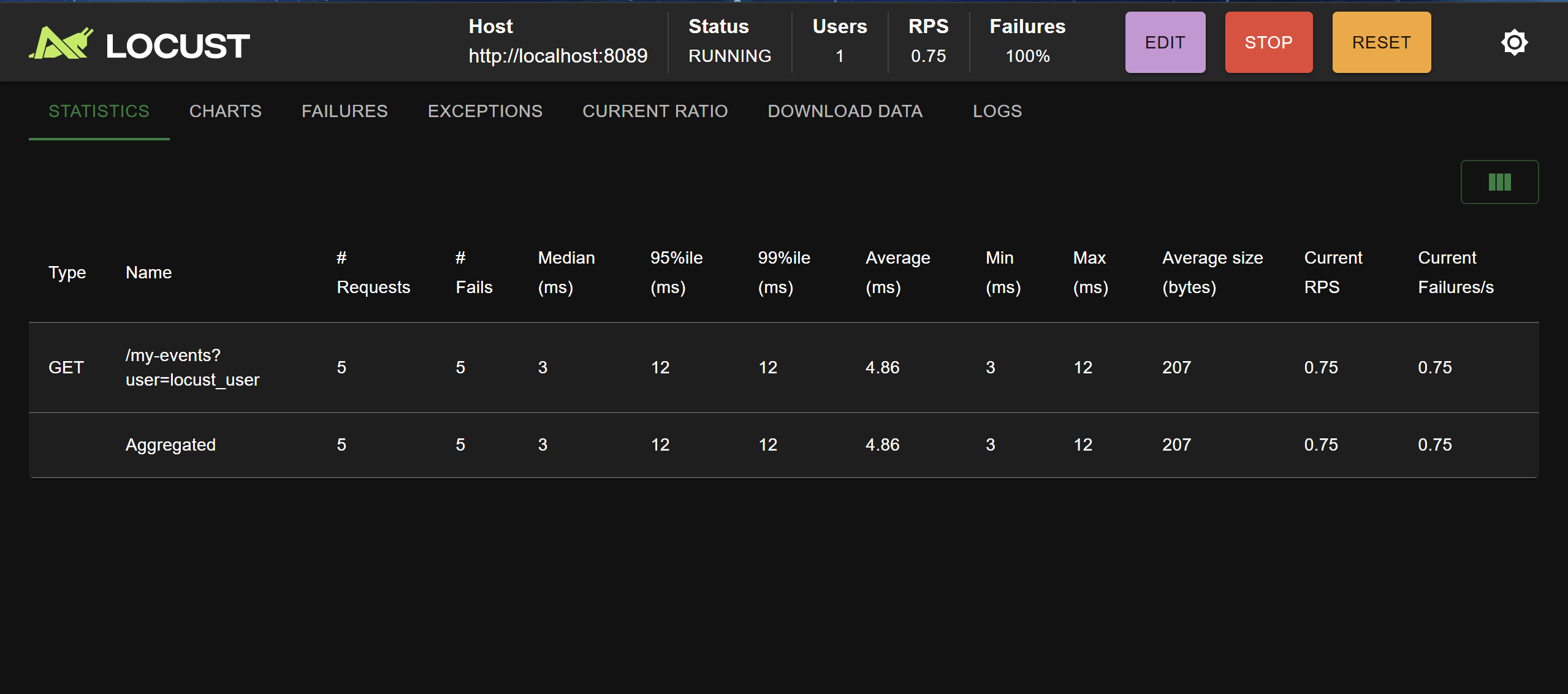


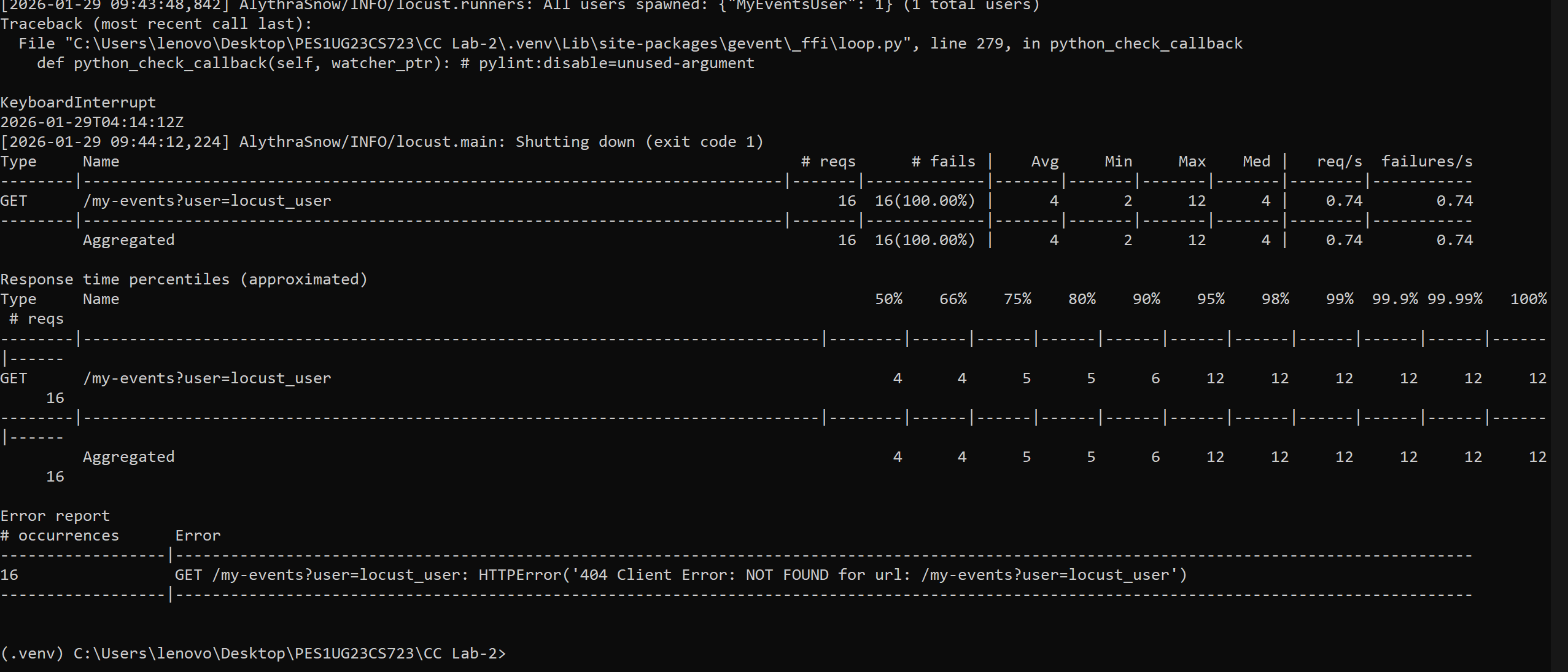


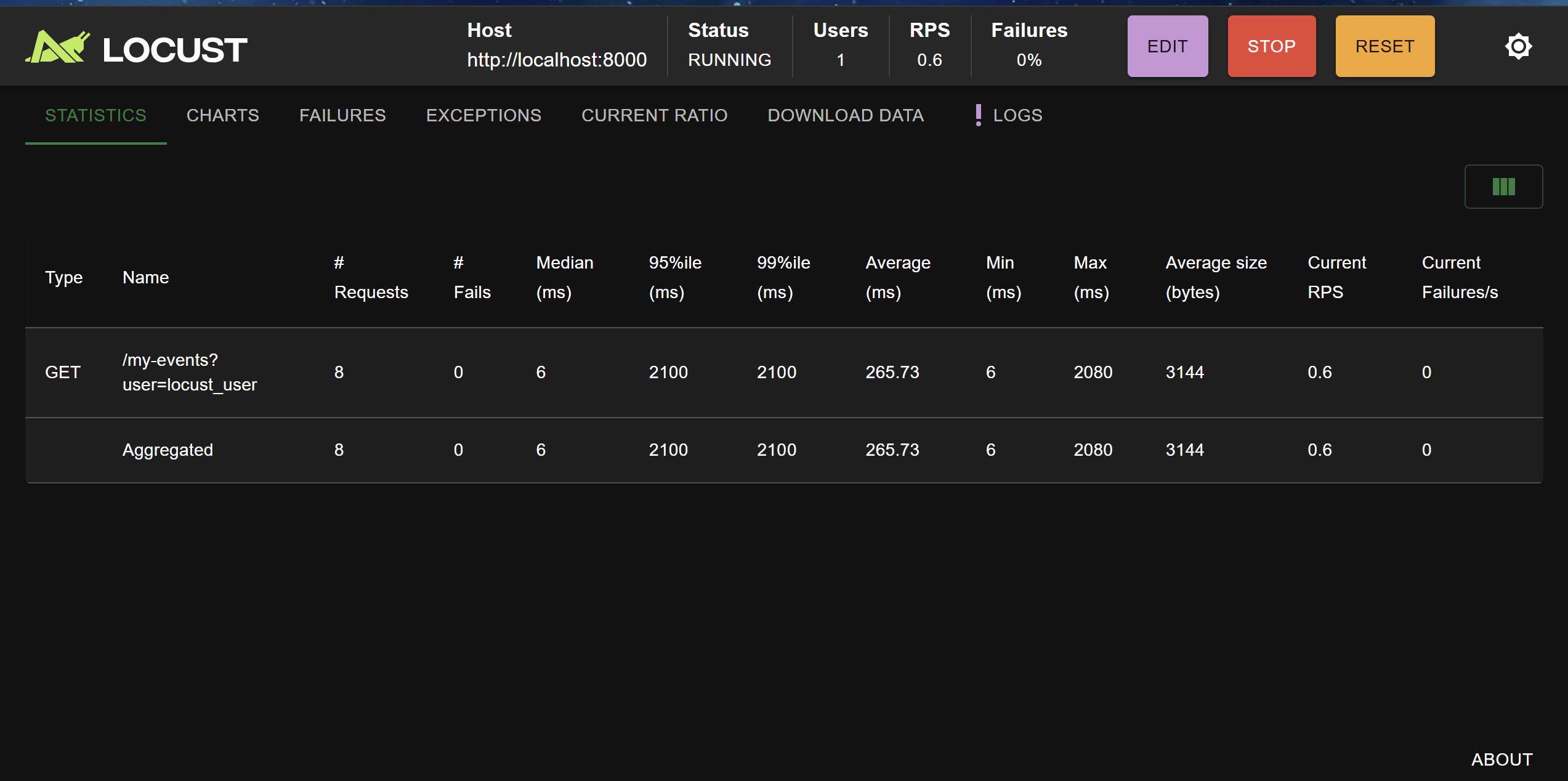


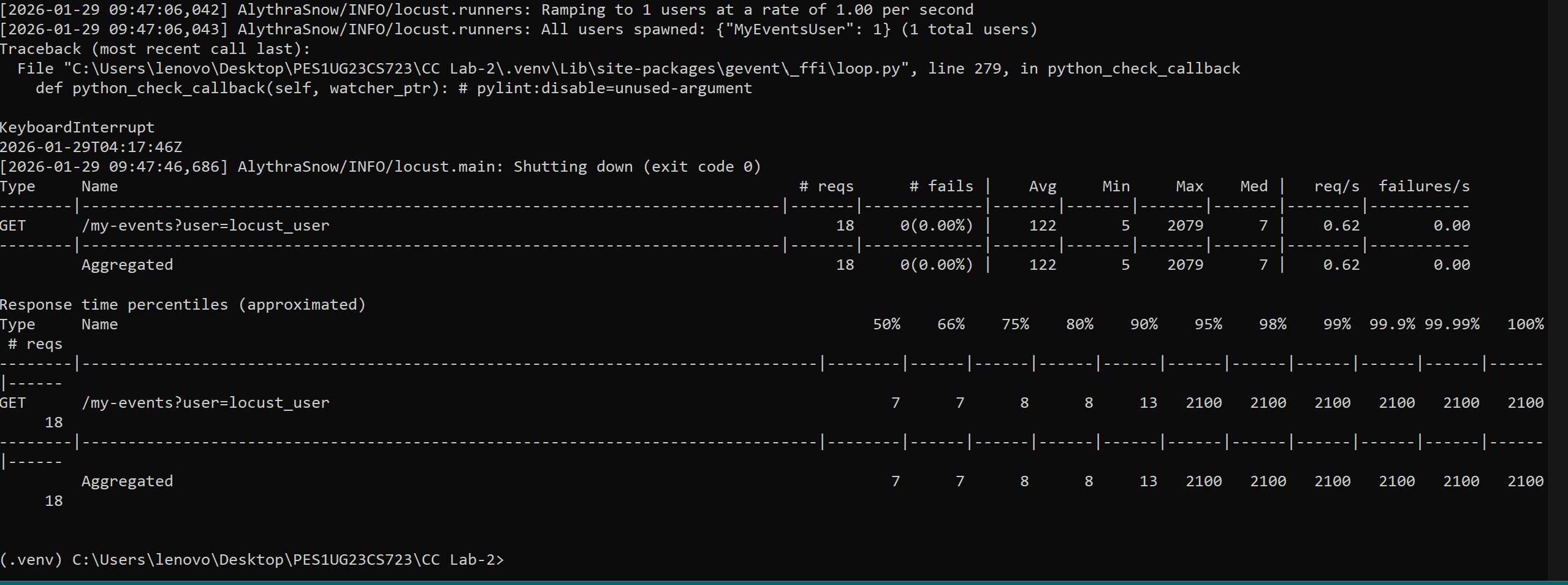
ROUTE 2











**QUESTION AND ANSWERS :**

**What was the bottleneck in the /checkout route?**

The checkout route contained inefficient logic that unnecessarily looped through values, increasing CPU usage and response time. This made the route slower under load.

**What change did you make to optimize /checkout?**

The inefficient loop was replaced with a direct and optimized calculation that summed event fees efficiently. This reduced unnecessary computation.

**Why did performance improve after optimizing /checkout?**

By removing redundant operations, the CPU workload was reduced. As a result, the average response time dropped while the system handled the same number of requests per second more efficiently.

**Route /events: What was the bottleneck?**

The /events route contained an unnecessary loop running millions of iterations. This loop did not contribute to functionality but consumed CPU time, slowing down the response.

**What change was made in /events?**

The wasteful loop was completely removed, allowing the route to simply fetch event data from the database and return it to the user.

**Why did /events performance improve?**

Removing unnecessary computation reduced CPU usage, allowing the server to respond faster and handle requests more efficiently.

**Route /my-events: What was the bottleneck?**

The /my-events route had a dummy loop that performed useless iterations, which slowed down the response time without adding any value.

**What change was made in /my-events?**

The redundant loop was removed, leaving only the required database query and template rendering logic.

**Why did /my-events performance improve?**

With the unnecessary computation removed, the server spent less time processing each request, resulting in faster responses and better performance.