Locust test report for a Flask web application with 2 endpoints.

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Description of tested conditions:

- ➢ Processor: Intel(R) Core(TM) i5-5200U CPU @ 2.20GHz 2.20 GHz
- ➢ RAM: 16.0 GB
- ➢ Operating system: 64-bit operating system, x64-based processor Windows 10 Home
- ➢ Disk: SSD

What was tested?

The Flask web application was tested using the Locust tool to assess its performance and scalability. The tests included simulating user traffic of 5, 50, 500, 1000 and 5000 users.
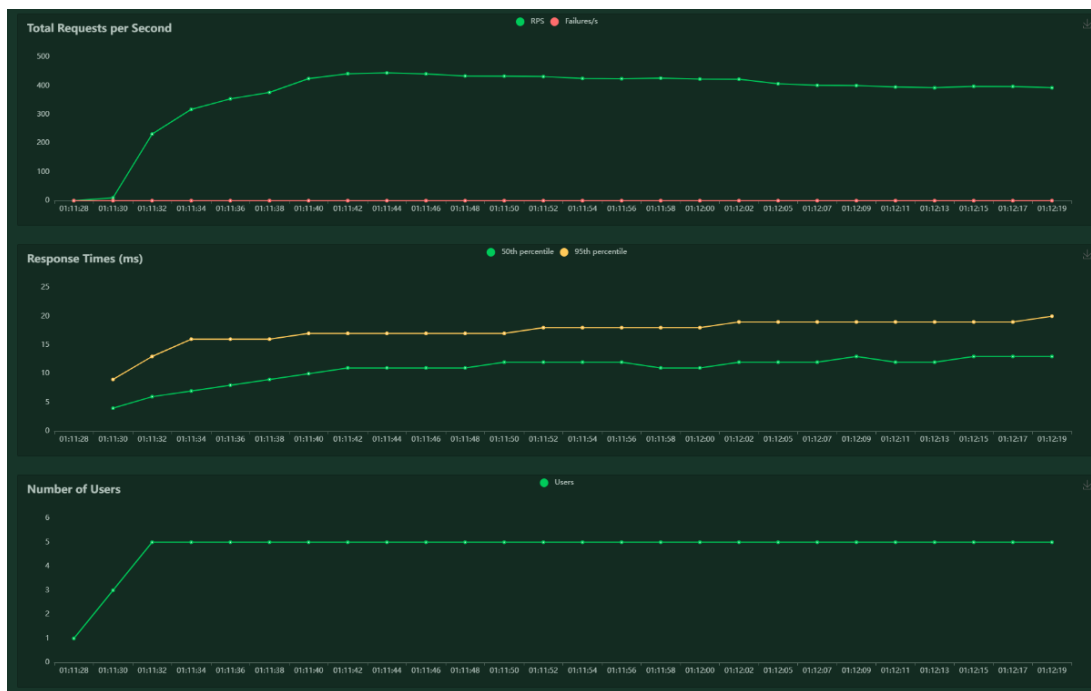
What were the test results?

As it can be seen from the charts, the application response time increased with the number of users and the request rate.
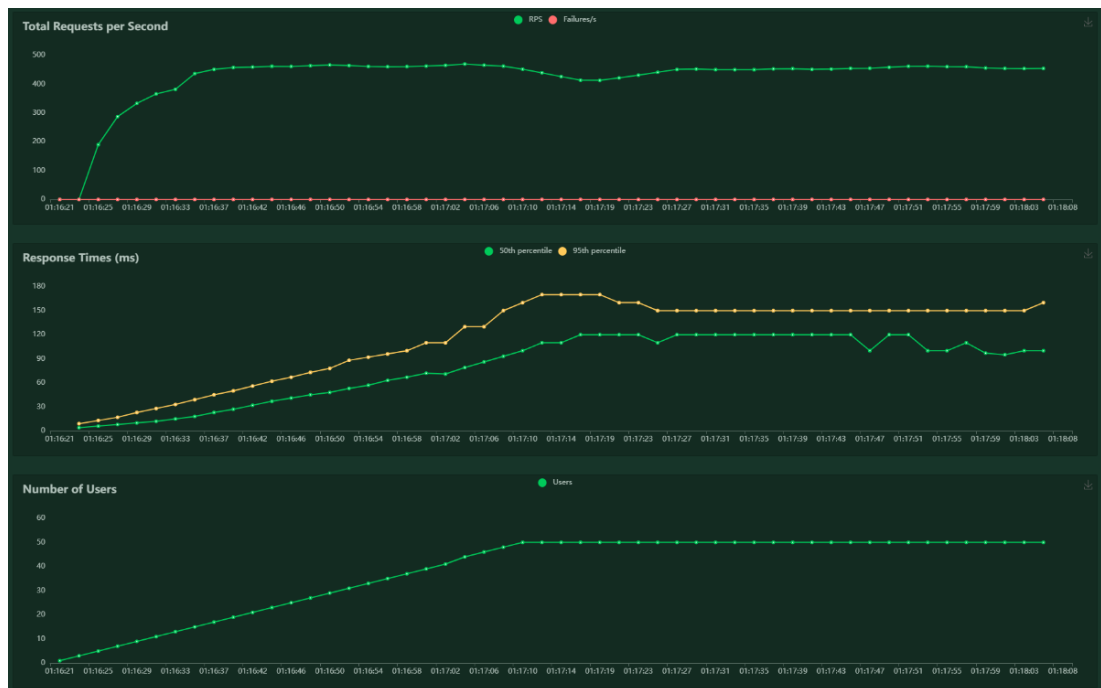
Conclusions

Based on the test results, it can be concluded that the Flask application is capable of handling 50 users simultaneously, performing up to 500 requests per second without a significant impact on the response time. With more users and request rates, the response time began to increase, which may indicate the need to scale the application to maintain proper performance. It
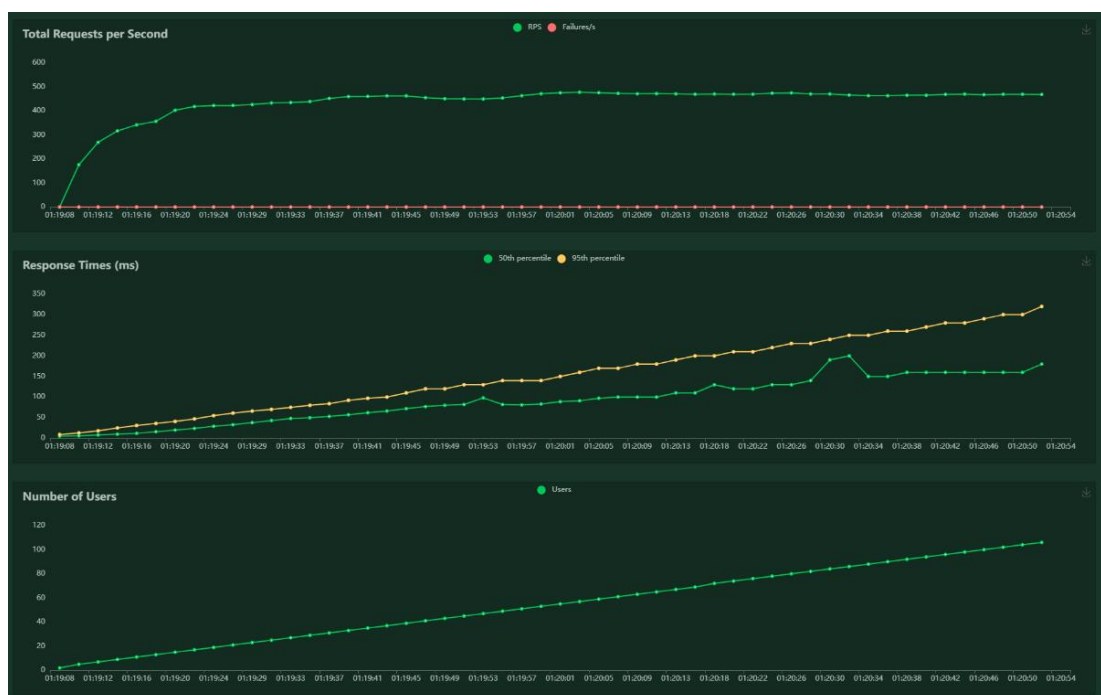
should also be noted that the application's performance may depend on many factors, such as server configuration, database size, or available RAM.
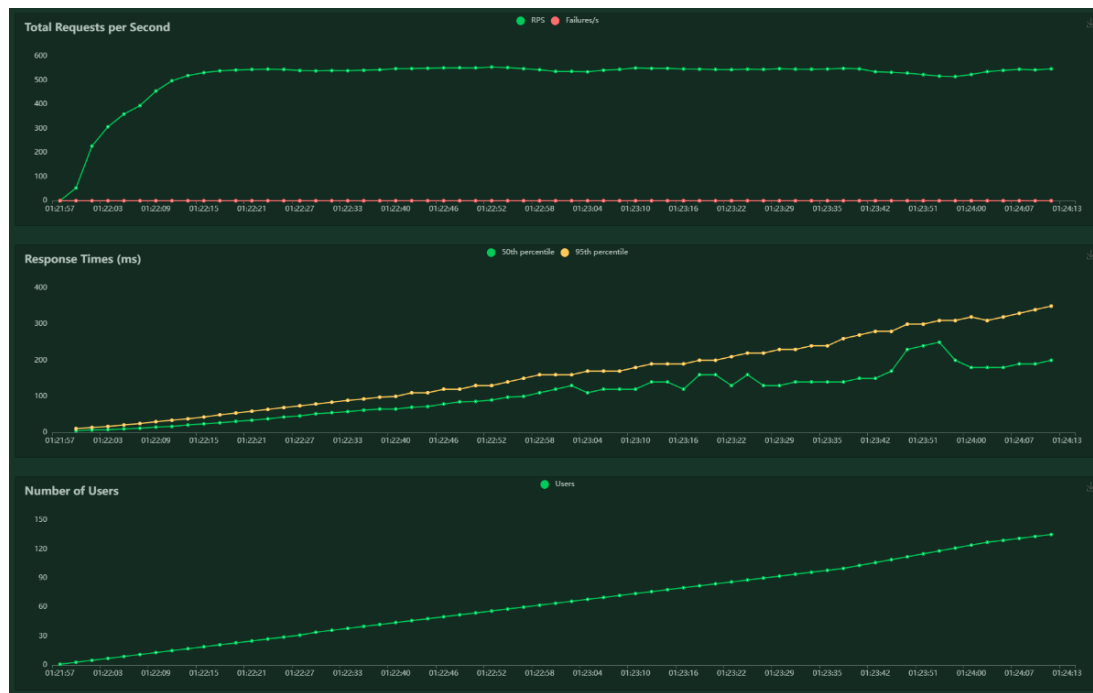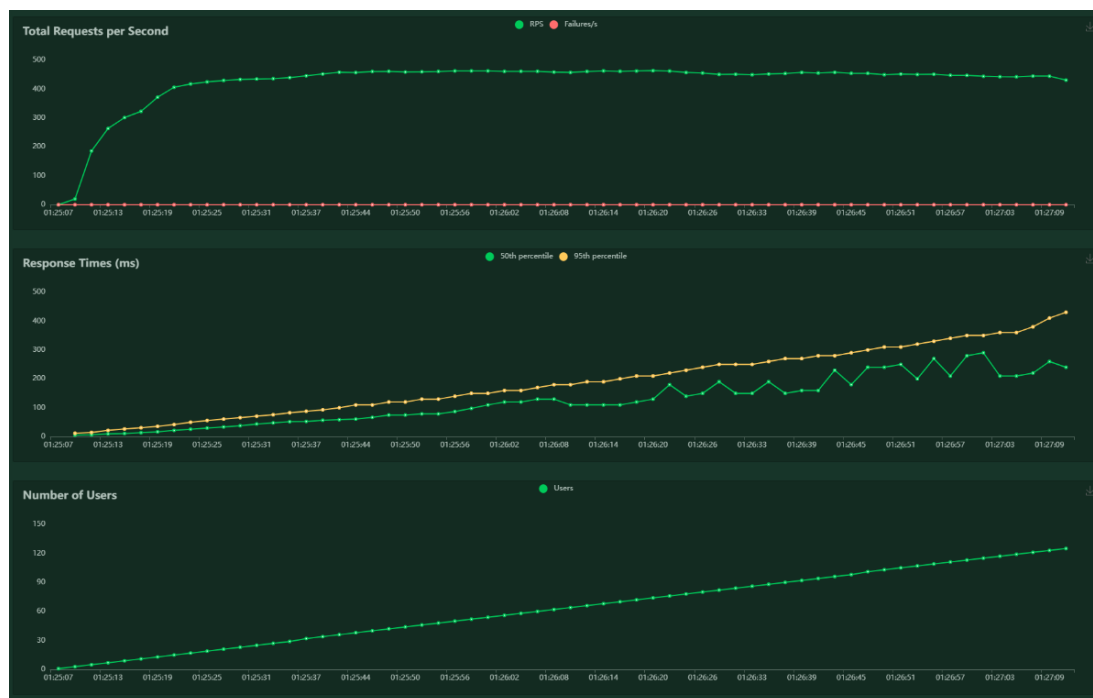

Rysunek 1 Użytkownicy = 5

Rysunek 2 Użytkownicy = 50

Rysunek 3 Użytkownicy = 500

Rysunek 4 Użytkownicy = 1000

Rysunek 5 Użytkownicy = 5000