# Backend Performance Pressure Test Report

## 1. Test Environment

Processor: 12th Gen Intel® Core™ i7-12650H

Storage: SOLIDIGM SSDPFKNU512GZ

GPU: NVIDIA GeForce RTX 4050 Laptop GPU

Memory: 16 GB DDR5

OS: Windows 11

## 2. Test Results Summary

Test Date: 12 Aug 2025

Test Duration: 5 minutes

Concurrent Users: 50

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Endpoint** | **Total Requests** | **Successful Requests** | **Success Rate (%)** | **Avg Response Time (s)** |
| / | 2369 | 2369 | 100.0 | 0.177 |
| /api/hello | 3020 | 3020 | 100.0 | 0.191 |
| /api/login | 3573 | 3573 | 100.0 | 0.201 |
| /api/start\_session | 1277 | 976 | 76.4 | 0.177 |
| /api/get\_messages/test\_session\_id | 783 | 344 | 43.9 | 0.215 |
| /api/get\_sessions/test\_user\_id | 692 | 356 | 51.4 | 0.257 |
| /api/profile | 636 | 375 | 59.0 | 0.192 |
| /api/update\_session\_title | 687 | 559 | 81.4 | 0.172 |
| /api/delete\_session | 672 | 558 | 83.0 | 0.187 |
| /api/search | 2886 | 2609 | 90.4 | 0.216 |
| /api/admin/getpdfs | 981 | 876 | 89.3 | 0.217 |
| /api/aichat/general | 217 | 185 | 85.3 | 9.076 |
| /api/aichat/rag | 140 | 10 | 7.1 | 3.374 |
| /api/admin/messages/need-human | 683 | 683 | 100.0 | 0.195 |
| /api/admin/messages/stats | 1470 | 1470 | 100.0 | 0.176 |
| /api/admin/messages/by-mode/general | 1479 | 1479 | 100.0 | 0.194 |
| /api/get\_tickets | 1457 | 1457 | 100.0 | 0.181 |
| /api/tickets/stats | 1604 | 1604 | 100.0 | 0.176 |

**CPU Usage**: Avg 11.4%, Max 53.4%

**Memory Usage**: Avg 92.4%, Max 95.5%

## 3. Conclusion

Most endpoints maintain **high reliability (≥90% success rate)**, indicating that the core system is stable.

* However, two endpoints show critical failure rates:
  + /api/aichat/rag → **7.1% success rate**
  + /api/get\_messages/test\_session\_id → **43.9% success rate**
* This may cause by the poor hardware and parallel capabilities, which needs to be improved

# Fronte Performance Pressure Test Report

## 1. Test Environment

Processor: 12th Gen Intel® Core™ i7-12650H

Storage: SOLIDIGM SSDPFKNU512GZ

GPU: NVIDIA GeForce RTX 4050 Laptop GPU

Memory: 16 GB DDR5

OS: Windows 11

## 2. Test Results Summary

Test Date: 12 Aug 2025

|  |  |  |  |
| --- | --- | --- | --- |
| **Concurrent Users** | **Success Rate (%)** | **Avg. Response Time (ms)** | **Actions per Second** |
| 1 | 100.00 | 0.10 | 0.89 |
| 5 | 100.00 | 0.06 | 4.55 |
| 10 | 100.00 | 0.07 | 9.50 |
| 20 | 100.00 | 0.06 | 17.85 |
| 50 | 100.00 | 0.06 | 44.97 |

**Overall Metrics**

* **Total Requests:** 2,740
* **Successful Requests:** 2,740
* **Failed Requests:** 0
* **Peak Memory Usage:** 106.55 MB
* **Total Test Duration:** 194,229.70 ms

## Conclusion

Reliability maintain Success rate at 100% But have low and stable average response times by concurrency