**Report about conducted load test**

**Date:** 17/05/2022

**Author:** Vladyslav Kliucharov

**Application:** BlogEngine.NET version 3.2

**Environment:** Test Environment VirtualBox (Version 6.1.34 r150636 (Qt5.6.2))

**Test Environment configuration(RAM, CPU etc.):**

|  |  |
| --- | --- |
| **Processor** | 11th Gen Intel(R) Core(TM) i7-1185G7 @ 3.00GHz 3.00 GHz (4 core) |
| **RAM** | 8 GB |
| **Hard Disk** | 60 GB |
| **Operating System** | Windows 10 Enterprise (21H2) |

1. **Why such testing was conducted:**

The report is included two methods of testing:

1. Smoke testing - was conducted to verification that the crucial functions of a program can be run and executed in the main workflow

2. Capacity Testing - was conducted to define the number of users that the application a given system will support and still meet performance goals

1. **Test script description:**

The features to be tested have been logically grouped to be covered 3 scripts that were developed followed by load requirement analysis for the modules. The below table captures the features covered by each script

|  |  |  |
| --- | --- | --- |
|  |  |  |

1. **Tests:**  
   **Test run preconditions:**

Before each new test script run, the webserver should be reloaded, the test should be executed in NON-GUI mode **Load Model:**

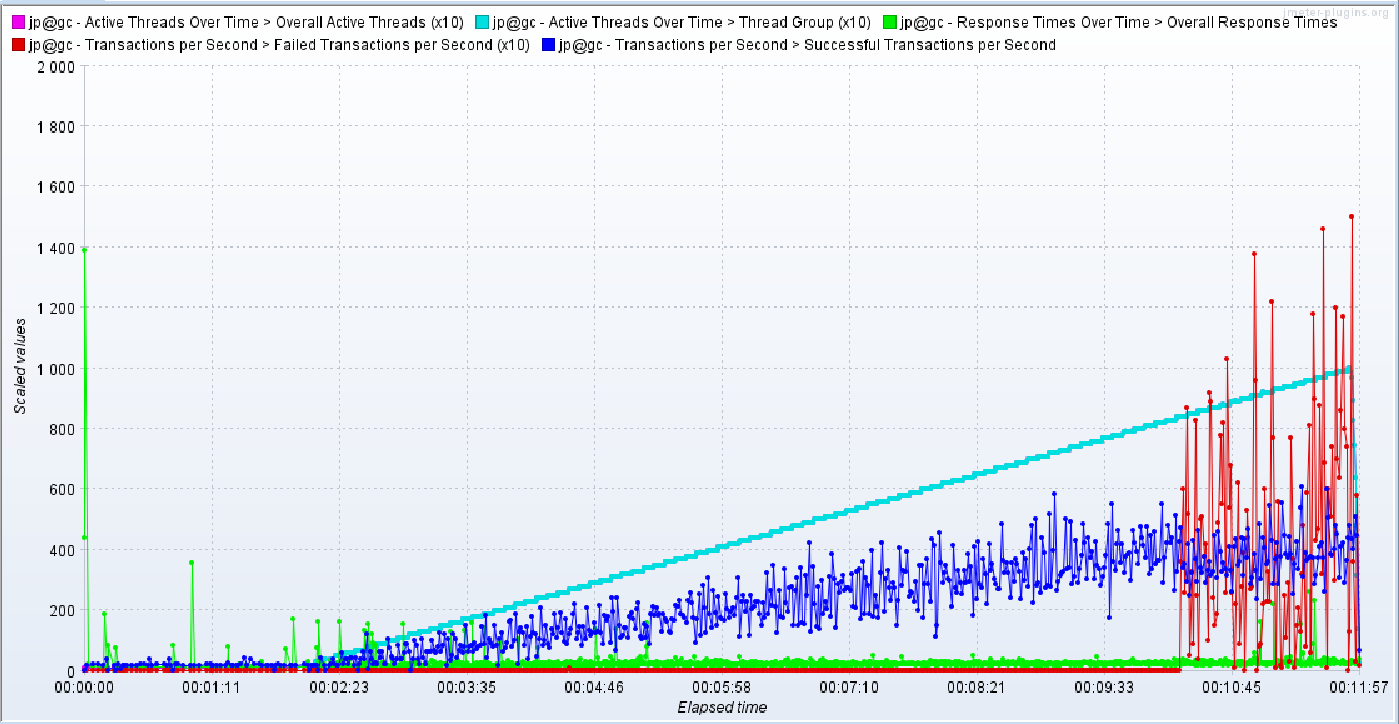
|  |  |
| --- | --- |
| Maximum number of simultaneous users | 100 |
| Ramp-Up period | 600 |
| Test duration | 600 (sec.) |

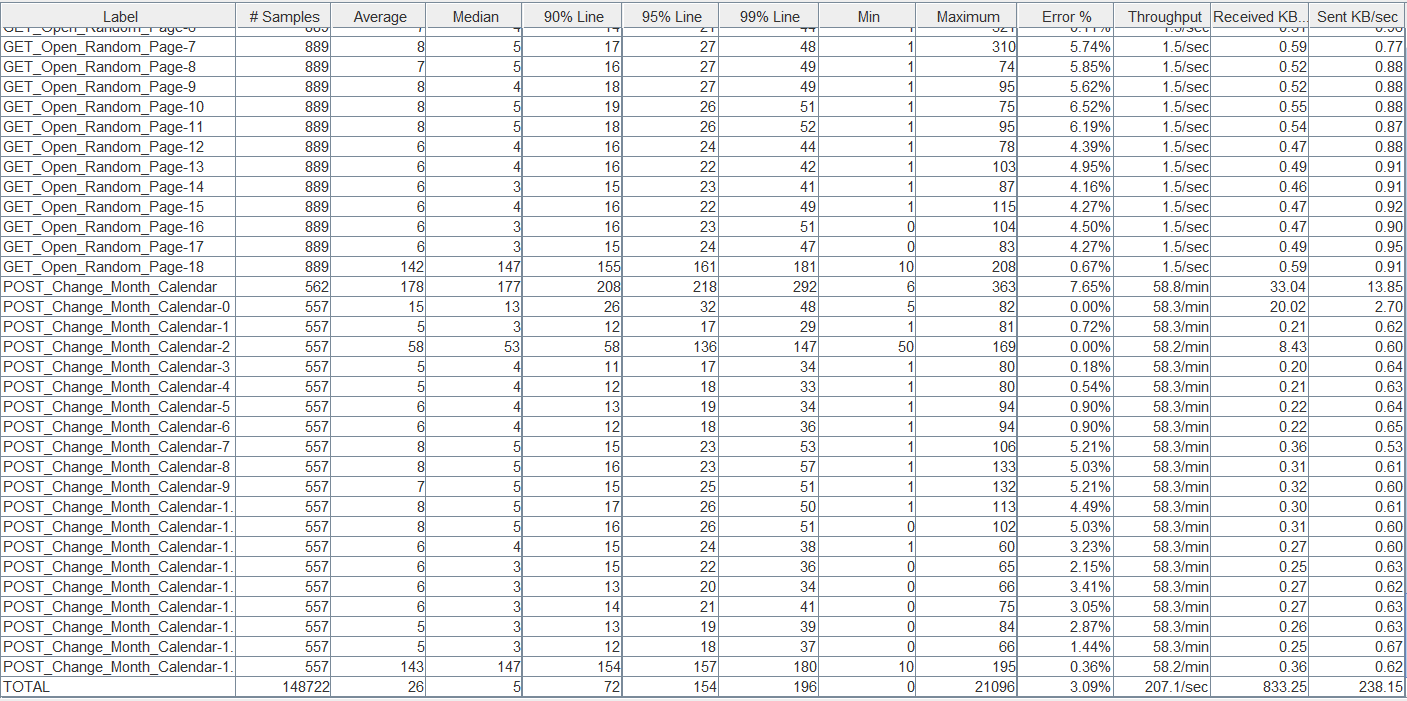
1. **Short summary on conducted tests:**

Capacity testing showed the comfort zone prior to 80 users

1. **Detailed test results:**

According to the capacity testing result, the comfort zone prior to 80 users, and the saturation point is approximately 82 users. Degradation of successful queries is start between 80 and 82 users. The application reaches users capacity after 80 users.



****

1. **Conclusion:**

The test was run 3 times. The result was received by comparing test results, it shows that the capacity of a "Blog" is 80 users