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| WebstaurantStore  Application Performance Engineering Team |  |

Outlet Product Pages Load Test Results

Performance Report

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| Testing Date | Builds Tested: | Tickets: |
| March 9, 2024 | Current Production | 1. N/A |

The performance testing was performed on testers local environment running Windows 11 Pro with 12 CPU cores, 64GB of DDR5 Ram, premium SSD drives, and up to 1 Gbps network speeds. At the time testing took place, download speeds were benchmarked at 739 Mbps and upload speeds at 39 Mbps.

Note: due to the settings/outlined scenario of this test, not enough data points were collected to be statistically sufficient for an accurate evaluation.

# Scope of Work

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|  | To test the Outlet Product pages by running a wide array of product GET requests we would expect clients to take. We used the tests to determine the effects of normal operations on performance. |

# Testing Approach and Scenarios

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|  | Testing was performed using JMeter with the following configurations:   * + 5 threads (VUs) ramped up over a period of 60 seconds.   + Throughput starting at 1 RPM and ending at 5 RPM after 60 seconds, then maintaining 5 RPM for an additional 14 minutes. [Total test time 15 minutes]   + Randomized sampling of product pages from CSV test driver file. |

# Performance Expectations

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|  | The following expectations for performance were outlined with the help and input of the product team, as well as executive leadership and apply to the 90th percentile response times.  Satisfied – Response times are within 450 ms.  Tolerated – Response times are above 450 ms but under 550 ms.  Frustrated – Response times are above 550 ms. |

# Summary Statistics

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|  | A total of 60 requests were made over the course of 15 minutes with no more than 5 requests per minute. Of said requests, 100% resulted in success. No errors were observed during this time. |

# Results

The following results outline the performance across 10 different product pages showing the 90th percentile results. Note: due to the configurations on this test, not enough data points were collected

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|  | Of the 10 endpoints tested, 7 fell into the satisfied, 1 in the tolerated, and 2 in the frustrated range.  **570**  **532**  Frustrated  Tolerated  **466**  **367**  **445**  **439**  **418**  **396**  **431**  **384**  Satisfied  Ventless\_Conveyor\_Oven  Liquid\_Propane\_Wok\_Range  Electric\_Countertop\_Steamer  Countertop\_Nugget\_Ice\_Maker  Hotel\_Ice\_Dispenser  Gas\_Countertop\_Griddle  Electric\_Convection\_Oven  Stainless\_Steel\_Floor\_Fryer  Small\_Cube\_Ice\_Machine  Ice\_Storage\_Bin |

# Technical Breakdown

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|  | In the figure below, a boxplot shows the distribution of results by page tested. Variances are relatively small in 8 of the 10 pages tested. The pages showing increased variance are:  Liquid\_Propane\_Wok\_Range: outlet/351WOKR13L/67237.html  Ventless\_Conveyor\_Oven: outlet/93611802VE/66905.html  Of these, one, the Ventless\_Conveyor\_Oven also shows a frustrated P90 value in the above visual. This endpoint should be under scrutiny and may require further testing. |

# Executive Summary

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|  | APDEX (Application Performance Index) is used to judge the overall performance of an application based on previously outlined expectations by the product teams and leadership. Our range of APDEX scores are as follows:  Satisfied: 85 – 100 Tolerated: 70 – 84 Frustrated: 0 – 69  Based on the load test metrics collected across various Outlet Pages, our calculated APDEX score is  75  APDEX    The performance of the Outlet Pages received a score of 75. This value falls in the Tolerated range for performance. Two endpoints were identified as having potential performance issues. The resolution of these endpoints will significantly aid in increasing our APDEX score. |

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