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| **Performance Test Strategy**  **v.1.0** |

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**1. Introduction**

This Performance Engineering Strategy document defines the approach to testing the system. It briefly describes the methods and tools which are used.

The purpose of this document is to outline the approach that the Performance Engineering team will take to ensure that the Performance Acceptance Criteria is met. Specifically, this document details the:

• Performance Acceptance Criteria

• Workload Distribution to be used to exercise and gather measurements from the application

• Testing schedule

• Tests to be performed

• Metrics to be collected

• Data and data management issues

**2. Performance Test Objectives**

**3. KPIS**

|  |  |  |
| --- | --- | --- |
| **KPIS** | | |
| Name | Description | Comments |
| Response time | Get full response |  |
| Error Rate | Users percentage which get error during request |  |
| Throughput | Throughput is measured in units of Kilobytes Per Second.  It shows how much data is flowing back and forth from your servers. |  |
| Average Latency | Wait Time. The time it takes from when a request is sent until the first byte is received. |  |
| Connect time | Time when our request connect to the server |  |
| Memory Use | Amount of physical memory available to processes on a computer. |  |
| Processor Usage | An amount of time processor spends executing non-idle threads. |  |

**4. Resource requirements**

**Testing environment:**

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

**Testing tools:**

1. Postman
2. Jmeter

**5. Thresholds of the system**

**Вот тут я что то не уловил до конца мыслю!!!!! Определить порог входа**

**6. Production metrics**

По такому же образу произведу замеры других методов, не писал все так как не был уверен что писал правильные

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Authentication service 100 users | | | | | |
| Method name | Response time  Max (ms) | Error rate | Throughput | Latency  Max (ms) | Connect time max (ms) |
| generate\_token | 554 | 0% | 69.8/sec | 554 | 9 |
| validate\_token | 551 | 0% | 66.9/sec | 551 | 8 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |