**Performance Test Report**

**Introduction**

The scope of the testing included testing API response time, throughput, and resource utilization under normal load.

**Testing Environment**

The testing was conducted on a dedicated server with the following specifications:

* Server Name:XXX
* CPU :XXX
* Memory:XXX
* Load Testing Tool: Apache JMeter v5.5

**Test Scenarios**

The following test scenarios were executed:

1. Scenario 1: 5 concurrent users, ramp-up period of 5 seconds, duration of 1 minutes.

**Test Results**

The following key performance indicators were measured:

1. Response Time: The time taken by the web application to respond to user requests.
2. Throughput: The number of requests processed per second.
3. Error Rate: The percentage of failed requests.

The results of the testing are summarized in the following table:

| **Scenario** | **Concurrent Users** | **Ramp-up Period** | **Duration** | **Avg.(RT)** | **Min(RT)** | **Throughput** | **Error** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 5 | 5 seconds | 1 min | 192 | 172 | 24 | 0 |

**Observations**

1. Response times: The average response times for all scenarios were within acceptable limits
2. Throughput: The web application was able to handle scenario without any major issues.
3. Error rate: The error rate for scenario was 0%.

**Recommendations**

1. Conduct additional performance testing with higher concurrent user loads to identify any potential bottlenecks and limitations.
2. Implement monitoring tools to track system performance in real-time and identify issues proactively.

**Conclusion**

The performance testing conducted on application revealed that the application is capable of handling normal and peak loads within acceptable limits. However, further optimization and monitoring are recommended to ensure optimal performance under larger loads.

Top of Form

Bottom of Form