

Client Speaks

Congratulations!

A significant milestone met by thorough planning and disciplined execution by the team. Great job!

Thanks for the regular update through the process. This successful deployment is the result of much effort on the part of a very talented group of folks.

Client

Client is a fortune 500 company providing innovative solutions in the e-learning and media industry. They have been serving and delivering highly customized e learning solutions for teachers, students and other academic bodies over decades.

Challenges

One of the biggest challenges the organization faces is achieving and maintaining its mission critical application at peak performance and scalability levels. The system without any solid, well framed methodology for finding or predicting system behavior and performance under real time stress was really hurting. It was also facing problems like:-

Unavailability of bulk test data:- Generally enough login IDs were not available in the application database to run performance tests with multiple users

Complex and hard to analyze results: - Improper confusing charts and tables often resulted in wrong decisions affecting the client's and product's reputation.

Shared environment: - Often times the performance test team was not provided a dedicated environment; they had to share test environment with other test teams affecting the accuracy of test results.

Load generation tools used did not interact with client side portion of the application. Conditional navigation was not properly handled.

The **database size of the application** under test was not kept constant across various test cycles which led to difficulties in comparing results.

“Software companies have had to dramatically change their approach to quality to create the more usable and higher quality product that consumers are now demanding”

Mukesh Sharma
CEO, QA InfoTech worldwide

Solution

Performance testing is the process of building a product with superior performance and scalability. At QA InfoTech, our team of performance engineering professionals understands core elements to assure the system's performance, meets or exceeds its goals and requirements, now and in the future. Our comprehensive consulting service aligns with the client's Software Development Life Cycle to identify their key business processes and requirements, understand their business and infrastructure and help configure a performance testing environment that accurately simulates production environment. We follow up with timely and efficient testing, monitoring, in-depth analysis and tuning recommendations.

Some of the key functions performed by the QA InfoTech performance engineer in this client's scenario include:

- Identified and developed an in-depth understanding of the client's application and system architecture, to capture only those processes with the greatest potential for success
- Scoped out areas of performance risk, performance goals and requirements to achieve proper focus and avoid expensive over- or under-testing, allowing us to identify potential performance bottlenecks early in the software development life cycle.
- Created the scripts and scenarios to produce consistent, measurable and repeatable load tests; designed to mirror the client's live production environment, user loads, business patterns and throughput, including where applicable; projections for future growth. Made performance tuning recommendations designed to improve response times and avoid resource bottlenecks.
- Performed trend analysis to identify scaling issues that may impact users down the road. Documented our testing process and archived test scripts, data, results and environment configurations for future testing and base lining.

Client Benefits

Our team ensured that each new feature added to the application provided better user experience. The results of all hard work and dedication came out to be astonishing as the company's profit surged and there was decrease in customer issues. After implementing the proposed solution the client was delighted and confident about the system as it saved time, effort and the infrastructure cost.

QA InfoTech's team of experts have both the ability and flexibility to leverage any popular state-of-the-art performance tools or utilize QAIT's custom framework built around a rich supply of open source performance testing options. We at QA InfoTech create and execute scripts in a very consistent, measurable and reusable manner to mirror client's live production environment, user loads, business patterns and throughput which are applicable and also accommodative of their future growth projection