CASE
STUDY

Test triangle team was able to successfully conduct Performance testing to increase performance, efficiency and scalability for a leading financial service provider organization. It was a time and cost saving activity for the client, which helped it in meeting performance goals.

TEST TRIANGLE
Trusted Partner in IT Consulting

Our CLIENT

The client is a renowned name in Client Lifecycle Management Software Solution industry. It provides a customizable solution to the banking and financial industry which can address several industry-specific requirements such as compliance, client data, onboarding, and lifecycle compliance.

Project **CHALLENGES**

The client developed a unique solution, which can handle large amount of data and documentation, ensuring full compliance with risk and regulatory obligations. The testing process has to be carried out in consideration of the following challenges:

- **System performance:** The system must be designed with a full complement of capabilities and capable of handling unusual circumstances

- **High scalability:** The client's application must be able to handle the load of a large number of concurrent users

- **Efficiency Challenge:** The end-customers expects that the application must be able to respond in the least time with several transactions per second

- **Handling the bulk data:** The system must be capable of handling large amount of data

- **Lack of Performance Test Coverage:** It was necessary to create different test scenarios to ensure that the use cases attend all the key functionalities of the software project

- **Non-availability of testing scripts:** There were not enough data in the application database, which can be used to run performance test

Test Triangle's
SOLUTION

After evaluating all the customer requirements, Test triangle suggested the following solution:

- Performance testing was suggested to build a superior and highly scalable product

- The client's application was analyzed and only those processes were identified and worked upon, which have a high potential for the success

- Load testing was suggested with a load of 20,000 concurrent users

- Test Triangle's team identified the areas of performance risk, performance goals, and test requirements to avoid the scenario of over or under testing. It also eased the process of identifying the performance bottleneck at the initial software development stage

- The web performance and Response time of AJAX applications was optimized using HTTP based performance testing

- Server metrics like CPU utilization, Network I/O, memory usage etc were monitored as part of performance testing

- Test triangle's team assisted in profiling application through Dot Trace and SQL Profiler me

- We conducted trend analysis to identify scaling issues which might impact the software quality and load time. The testing process, archived test scripts, data, results, and environmental configuration was documented for future use and baselining.

Benefits
ACHIEVED

The overall solution offered by Test Triangle benefitted the organization in several ways:

- Test Triangle's team was successful in identifying the parts of the system, which were performing badly

- Our team helped the organization in reducing the testing time by 70%

- The client benefitted with 27% improvement in performance

- A scalable product was created, which can easily accommodate the sudden changes in the customer inflow

- Created a solution, which can handle high work load with better response time

About
TEST TRIANGLE

Originally founded in 2012, Test Triangle has become a leader in IT consultancy services providing services in application testing, DevOps, RPA, Custom software development ,mobile app development , Atlassian consultancy, niche IT staff augmentation and training in advanced technologies. Test Triangle is headquartered in Ireland; but it also has branch offices in London, United Kingdom, and Hyderabad, India. We have exponentially grown to become a team of 200+ members providing services in different verticals such as Banking & Finance, Utilities, Pharma, Retail, IT & Education etc.

Test Triangle's R&D department has created a propriety platform, Test Outsourcing Dashboard [TOD] which can be used to manage software testing lifecycle using collaboration tools like email, live chat, video conferencing.

For inquiry please contact: inquiry@testtriangle.com

We have also launched a self- service testing platform (the premium version will be released as SaaS solution), which can provide a project overview and real-time updates of the software development lifecycle.

Over the years, we have established the reputation of being a 'trusted partner in IT consulting'. Test triangle is an agile software company, which constantly strives to exceed the expectations of its clients. We adopt the software testing and software application lifecycle to meet the customer's demand in an efficient and reliable manner. With a global workforce, we have proved ourselves in delivering tight-deadline projects.

We are proud to declare ourselves a client of Enterprise Ireland and European commission.

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where innovation means business

European Commission

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