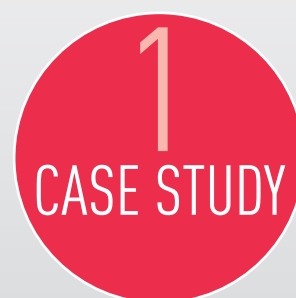




## THREESIXTY LOGICA TESTING SERVICES



### CLIENT

Our Client is a US based educational institution engaging online solutions that propel success for every student with the employee strength 201-500. It specializes in e-learning and virtual education. With 185 semester-long courses and growing, it has driven outcomes for 1 million students in schools and districts across the country. Client combines the stability of an established company with the fast-paced, nimble culture of a startup.

### PROBLEM STATEMENT / CHALLENGES FACED

- Benchmark set by our client was to achieve response time of 5 seconds to leading business transactions into the system
- System should be stable and responsive under peak load defined by our client
- It was learned that heavy Ajax was used in the client's learning management system
- We noticed the number of stored procedures and views were never optimized
- Clustering for Appserver was already done

### PROCEEDING & SOLUTIONS

- Set up Performance framework for larger enterprise Learning Management System
- Proper test strategy development after discussion with Technical Architects and Product team
- Test Bed set up in Cloud Network - it is designed to support research into the design, provisioning and management of services at a global, multi-datacenter scale
- Define benchmarks and identify business transactions

- During script development critical technical issues handling like Ajax control and different protocols issues
- Load deployment and monitoring
- Troubleshooting and bottleneck finding
- Discussions with different groups before report formulation
- Detailed reports and analysis
- Prepare Test reports based on Intended audience

### APPLICATIONS & REQUIREMENTS

Client was keen to launch a new release to their 200K users going to attend exams in United States.

Client opted to go under Performance Testing session to achieve 250K concurrent users stress testing

Top five business transactions benchmark set up was five seconds under peak load.

## TOOLS AND TECHNOLOGIES

Product was built in .Net and SQL server  
Tool identified Loadrunner 11.0  
DB and APP server Monitoring tools  
Ajax, Flex, Silver light, Web, SOA, RDP, Oracle, SAP,  
Citrix, Terminal, Database

## ADVANTAGES OF USING LOAD RUNNER

Load Runner, because of its robustness and user friendliness is widely recommended in the industry.

The project involved complex scenario's script and using Load Runner, half of the scripting efforts were reduced because of its strong base of inbuilt functions and correlation. Hence, it allowed us to accomplish our objective in a lesser time frame.

Load Runner Controller component makes it quite smooth to configure the real time scenarios and the tools integration capabilities with various monitoring tools. Its Analyzer component reduces our efforts in identifying the performance bottleneck and reduces the report compilation/generation time.

## BENEFITS TO OUR CLIENT

- Successful Performance Testing session before going live
- Development team found stress points and peak load system can sustain gaps and analysis to improve system in more effective manner
- An Advantage to achieve better performance when load and stress increased
- Time and cost saving activity performed by offshore team
- This was the first experience of our client when any offshore team was involved in such an important event and their trust and partnership strengthened the relationship with us

# CONNECT / COMMUNICATION



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## THREESIXTY LOGICA TESTING SERVICES

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