



Web Services Testing of a Cloud based Financial Application



TalentPace helped fine-tuning application performance by identifying a range of issues through meticulous Load test results, analysis and with an intent of meeting response time goals of the business.

Customer Profile

Customer has been providing advanced payment services and payment expertise to mobile operators, virtual operators, prepaid card providers, financial institutions and media companies since 2004. With offices in the UK, Romania and the UAE, customer was able to offer a broad range of fully hosted payment and fraud prevention services, delivering higher revenues and reduced costs.

Business Scenario

- The client began developing a centralized Payment Gateway software system that provides a REST web services interface to their various web properties.
- This common API is used by various internal and affiliate development teams and needed a high degree of quality, as well as accurate conformation to the specifications of the API.
- When the client first met with TalentPace Engineers, getting the API released was critical as this would significantly boost revenue outside of their traditional revenue generation.
- The task assigned to their internal development team was: “get this working, get this released.”

Solution Delivered

- TalentPace assembled the team of Engineers that would work directly with the client's development team and immediately began a careful review of the CAM API specification and documentation the client had created thus far.
- While it was important to review the specifications and other documentation the client had already created, it was just as important for TalentPace Engineers to understand and meet the timelines and ultimate goals behind the CAM API the client had envisioned when they initially embarked on the project.
- To ensure functionality, TalentPace developed a formal test specification documenting the characteristics of a set of test customers and over 300 test cases to validate the behavior of the API.
- Using the open source version of SoapUI, TalentPace coded a set of fully automated test cases consisting of over 2000 API calls and 2500 specific test assertions to verify correct API behavior.
- TalentPace also developed a set of load testing scenarios using LoadUI, deploying the load testing environment in the Amazon EC2 cloud. Over the course of the project a series of load, scalability and long term endurance tests were run by TalentPace.

Business Benefits

- By the end of the project, the Payment Gateway API passed every functional test case and the API met all of the specifications.
- TalentPace's analysis of the load testing results identified a variety of issues that helped tune the performance such that the target throughput and response times goals could be met.
- The development and testing timeline was significantly reduced and thus the lead time to release was shortened.
- The client was able to provide an excellent quality API product that was easily accessed and used by third parties to write programs.

Technologies

- REST Web Services
- SOAP UI
- Load UI



TalentPace is credited with some of the phenomenal methods in QA and testing makes every project a success. We have been with TalentPace from past 4 years and have partnered in multiple product testing activities and every time they come-up with innovative processes whilst at the same time applying conventional testing approaches makes them a distinct testing services provider. We are very impressive with their contribution and happy to continue with TalentPace in future.

Naveen

Chief Technology Officer
UltemO

About TalentPace

TalentPace is a leading new generation information technology and global consulting services company delivering IT enabled solutions to the customers from across the geographies. Deep industry experience combined with customer centric approach makes TalentPace a remarkable partner in successful business outcomes. Our strong commitment and demonstrable capabilities TalentPace always delivered measurable and sustainable services to our customers. For more information, please visit www.talentpace.com or write to us at info@talentpace.com

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