

Product testing for order management system

Leading Provider of Electronic Trading Solutions

The Customer

The Customer is a leading provider of electronic trading solutions that connects market participants of more than 58 marketplaces in over 40 countries. One of their products is a NASD and SEC compliant, FIX-based, front-end Order Management System (OMS). The OMS product is a rule-based application that automates all the processes and delivers solutions for customer allocation and commission tracking. It electronically captures, manages, and routes equity order flow and offers Straight Through Processing (STP) solutions via custom, real-time, back, and middle office integration.

The Challenge

Being an Independent Software Vendor (ISV), the Customer realized that reliability and robustness were critical success factors for their OMS product. AgreeYa was contracted to test the OMS product and help developers launch defect-free versions. The challenges that AgreeYa confronted were:

- Provide a zero-defect product
- Leverage offshore testing capability
- Augment onsite testing team

- Quicker go-to-market

The Solution

The project scope included Functional Testing, Load Testing, Performance Testing, and Security Testing in addition to tasks such as: creation of test scripts, test bed set up, defect tracking and reporting. AgreeYa's approach and solution included the following:

- A dedicated team of testers was provided for comprehensive testing of the product through VPN access. Detailed test plan and test cases were created to deliver a zero-defect product.
- AgreeYa adopted its unique O³ (onsite-offsite-offshore) delivery model and utilized its offshore Global Delivery Center (GDC) in India for testing of the product, thus leveraging the offshore delivery capability.
- AgreeYa devised a detailed plan including a time overlap strategy for seamless communication and coordination between the onsite development team and offshore test engineers, to work as an extended team. Weekly status reporting ensured that stakeholders were always aware of the schedule, progress, risks, and issues.
- While development was done during day time,

testing was done during the night with respect to the OMS product's development location. This expedited the development process and resulted in quicker go-to-market for the Customer.

The Results

AgreeYa leveraged its strong product testing experience with similar complex, transactional systems; its competency with Compuware testing tools; and its knowledge of J2EE technology framework to deliver a zero-defect product and a reduced Total Cost of Ownership (TCO) for the Customer.

This is an ongoing project, and AgreeYa is currently in discussion with the Customer to increase the partnership into other areas such as product development and product management.

The Technology

The technology platform for the OMS product is J2EE, C\C++, Apache Web Server, and Tomcat Application Server.

CompuWare product suite was used for automated testing and BugZilla for defect management.

About AgreeYa

AgreeYa Solutions is a global provider of software, solutions, and AML compliance services focused on deploying business-driven, technology-enabled solutions that create next-generation competitive advantages for customers. Headquartered in Folsom, California, AgreeYa is a growing and dynamic organization with 15 offices in 8 countries employing more than 1,100 professionals. Over the last 15 years, AgreeYa has worked with 200+ companies ranging from Fortune 100 firms to small and large businesses, delivering solutions for variety of industries including telecommunications, BFSI, healthcare, high-tech, manufacturing, utility and government. AgreeYa's software portfolio includes SocialXtend (intranet and enterprise social collaboration), VDIXtend (Desktop-on-Cloud), Onvelop (enterprise mobility productivity suite), and Edvelop (single window collaboration and communication solution for 21st century learning). As part of its solutions and services offerings, AgreeYa provides intranet and enterprise collaboration on SharePoint, cloud and infrastructure, enterprise mobility, product engineering, application development and management, independent software testing, and staffing (IT and risk/compliance) solutions.

AgreeYa's Independent Software Testing Services

AgreeYa provides Independent Software Testing services based on CMMI Level 5 methodologies and processes for applications and products. We select tools and methods to match our customers' technical, budget, and schedule requirements, or use our customers' standard tools and processes.

With services ranging from single instance testing, comprehensive software quality assurance (SQA) process assessments to fully retained outsourcing of entire SQA and software testing functions, our test labs consistently deliver the technical and business predictability expected out of software applications and products. Our onsite-offsite-offshore model ensures round-the-clock testing providing the flexibility our customers need, and the Return on Investment (ROI) they expect.

We provide end-to-end testing services including planning, design, scripting, manual and automated testing, reporting, and analytics.



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