

Ecommerce Market Place Web Penetration Testing

Client

Our Client is a leading ecommerce Market Place dealing in adventure gear, in the USA.

The Problem

QA InfoTech was contacted by a leading ecommerce marketplace, selling products that cater to the niche of adventure gear created by craftsmen, outdoorsmen, and food and drink enthusiasts. They were in the process of building a secure ecommerce website and driving sales online, and as such, had an online application portal in order to achieve this.

The nature of the engagement was to conduct web application security testing against the company's application prior to them going into the production.

The Challenge

One of our client's key business goals was to provide its customers with a safe and secure online shopping portal. It was imperative for the client to ensure that the website was not susceptible to technical or design flaws while providing a smooth shopping experience to its customers.

The Solution:

By using QA InfoTech's unique in-house developed methodology and ecommerce application driven framework, the information security engineers completed Web Application Security Assessment and penetration testing. Key highlights of the security assessment are as below:

- ✓ Functional mapping of the entire website with every detail about the URLs, parameters that are passed
- ✓ Test cases were created based on the ecommerce application specific vulnerabilities such as order management flaw, payment integration flaw, etc. in conjunction with various sections that were mapped
- ✓ Security testing conforming to OWASP top 10 and severe business logic vulnerabilities
- ✓ Automated scans using various commercial scanners
- ✓ Test case verification by manually confirming each of the potential test cases identified above
- ✓ Vulnerability correlation
- ✓ Educated the application owner about the risk and get a risk mitigation plan

Once the first cycle of the engagement was completed and vulnerabilities were identified in the client's website, the engineers leveraged the known vulnerabilities to further penetrate the client's application architecture and identify the true Impact of the vulnerabilities.

The Deliverables

The reports and remediation information provided were customized to match the client's operational environment and development framework. The following reports were submitted:

- **Daily Execution Summary Report:** Details of the vulnerabilities identified during the day and progress of execution on a daily basis till the last day of the engagement
- **Executive Presentation:** Overview of the entire engagement, the vulnerabilities discovered and the recommendations made to mitigate the threats identified on the client's websites
- **Detailed Technical Report:** Comprehensive information, proof of concept examples and detailed exploitation instructions of all the threats identified

The Benefits

By conducting thorough penetration tests and identifying vulnerabilities, QA InfoTech reduced the client's risk exposure in an environment where Online Shopping Regulatory Bodies are taking an extremely strict approach to security. Additionally, the we were able to bring in the following benefits-

- **Risk Benefits:** QA InfoTech minimized security risks by assessing the customer's infrastructure and business solution specific vulnerabilities and recommended solutions with proven methods to enhance security. Some of the major vulnerabilities discovered were-
 - ✓ SQL Injection
 - ✓ Cross Site Scripting
 - ✓ Broken Authentication and Session Management
 - ✓ Order Management Flaws
 - ✓ Payment Integration Flaws
 - ✓ Privilege Escalation

- **Cost Savings:** QA InfoTech suggested cost-effective risk-mitigation measures based on the customer's business requirements that would ensure security and continuity of the business
- **Reduced significant financial impact** and disruption to the hard business deadlines
- **Compliance:** As an added bonus, the Client will be able to utilize the information gained from this

About QA InfoTech

At QA InfoTech we specialize in providing independent offshore software testing and unbiased software quality assurance services to product companies, ranging from the Fortune 500 to start-ups. Established in 2003, with less than five testing experts, QA InfoTech has grown leaps and bounds with its three QA Centers of Excellence globally; located in the hub of IT activity in India in Noida and Bangalore and our affiliate QA InfoTech Inc. in Michigan, USA.


- ✓ 1000+ QA engineers and domain experts
- ✓ An ISO 9001:2008, CMMi Level 3, ISO 20000-1:2011 and ISO 27001:2005 compliant company
- ✓ Thought Leaders in E2E testing, specifically Test Automation, Performance Testing, Localization and Accessibility Testing

In 2010 and 2011, QA InfoTech was been ranked in the top 100 places to work for in India. We are amongst the top 50 Best IT & ITeS Companies To Work For in 2012, 2014, 2015 & 16 in India. For more details, please refer [to our blog on this event](#).

"We assure the highest degree of Excellence and Accuracy in our engagements. Once you have placed your trust with us, rest assured we guarantee an elated peace of mind"


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