ViSOLVE
OPEN SOURCE SOLUTIONS

How and why we do it

We, at ViSolve, Inc., understand your need and offer end-to-end Product Testing Services to improve the quality of the product that in turn reduces operational risks and maximizes compliance to norms.

With the progressive change in technology, there is also a change in the way products are developed today to keep up with time and standard. This is where we ensure you have the best product delivered to customers with the help of our renowned expertise and services in the field of product testing.

Here at ViSolve, Inc., we understand your needs in bringing out the best product, so we offer end to end product solutions and services by the means of product testing, resulting in reduced operational risks and keeps you in top form with the compliance to general industry standards.

The end result: A quality product with our help and significant savings for you.

Value Proposition

1   Proven expertise in Meaningful Use (MU) Gap Analysis & testing, Performance testing, Automation testing of Electronic Health Records (EHR) system

2   Provide consulting services for healthcare organizations and assist them in getting their EHRs certified by ONC-ATCB

3   Experience in working with leading healthcare players in the industry backed by technical assistance from industry stalwarts

4   Hands on expertise on different testing tools and methodologies

5   Flexible staffing that can be scaled up or down depending on the customer requirement

6   Commitment towards delivering a defect free product to the customer

ViSolve has demonstrated its expertise to healthcare players by testing the functionality, performance, security, reliability, and usability of their application. A few of our notable achievements in the healthcare industry are:

Functionality, performance and Meaningful Use testing of the EHR system

ViSolve joined hands with an Electronic Health Record (EHR) vendor to test their application for functionality. The team performed *manual and automation* testing on every section to ensure the design, customizations, and screens were as expected by the customer. Additional strategy was in place to verify whether the fixed piece of code caused any regression in the application.

The team also tested the *performance* by fine tuning the application code. Our Meaningful Use (MU) consultants assisted the customer with *MU (Stage 2) testing* to identify the gaps from Stage 1 requirements.

Validating the Centralized Directory Service of a leading Technology Company

ViSolve testing team validated the centralized directory service of the customer that offers management of enterprise resource information. The team developed *Automated Test* Suites to validate the functionalities and reported the defects. The automated test suite covered over 75% of the code.

User Interface and System Integration Testing for leading Medical Device Vendor

A leading medical device vendor approached ViSolve, Inc. with the intent of integrating their medical devices with the customers. ViSolve devised the software engineering strategy for this activity, and the testing team was responsible for assuring the quality of the developed product.

User Interface Testing – Manual Testing

The testing team validated the usability quotient of the developed user interface by performing actions on the buttons, pages and so on to verify whether the messages displayed to the end user are valid and understandable.

Performance and Security Testing

ViSolve team tested the performance of the user interface setup with high volumes of concurrent users by calculating the server response times for actions requested by users. Security of the user interface was verified against possible vulnerability attacks.

Integration Testing

The team tested the overall setup by integrating the user interface with the backend setup (with real time data) and testing the accuracy of data by comparing what is requested to what is seen by the customer. The team developed automated scripts (in addition to manual test cases) to test the individual modules and verify data accuracy.

Skill Sets

Purpose of testing	Testing tools used
Unit Testing and Code Coverage	PHPUnit, Simpletest, Junit, EMMA, Coder
Functionality and User Interface Testing	Selenium IDE 1.9
Performance Testing	Jmeter, Sysbench, tusc, glanceplus, Caliper, NewRelic, Icinga, Grinder
Validating the CCD and CCR records	CDA validation tool from NIST and CCR Validator
Verifying HL7 Conformance	HL7 V2 Message Validation Tool
HL7 V2 Message Validation Tool	Netsparker community edition 2.3.0.18
Cross browser compatibility testing	Selenium RC 2.25
Cross site scripting	ZAP tool
SQL Injection testing	SQLMap 0.9
Firefox add-on for Cross Site Scripting Testing	XSS-Me 0.4.2
Firefox add-on for SQL injection testing	SQL-Me 0.4
Bug tracking tools	JIRA, ActiveCollab
Meaningful Use Stage 2 Testing and Certification Tool	Cypress