

Software Testing and QA

Driving software quality and QA maturity in fast-paced development projects

Our Goal Is Your Digital Success

ScienceSoft is a provider of custom software development, testing and QA services with HQ in McKinney, TX

36

years in software development and testing

750+

employees

75+ testing specialists

730+

completed testing projects















Our Mission

Driving Project Success No Matter What

Achieving project goals in spite of time and budget constraints, as well as changing requirements, is ScienceSoft's top priority.

You set goals, we drive the project to fulfill them.

See how we work →





Our Clients

62% of our revenue comes from 2+ year Clients



MULTINATIONAL HEALTHCARE COMPANY



THE LARGEST BANK IN CANADA



LARGEST GLOBAL RETAILER



MULTINATIONAL TECHNOLOGY COMPANY



HEALTHCARE & LIFE SCIENCE INNOVATION PROVIDER



LARGEST GLOBAL FOOD **COMPANY**



OPERATING IN 8 COUNTRIES



MODERN TELEMEDICINE COMPANY



AWARD-WINNING UNIVERSAL BANK



MULTINATIONAL E-COMMERCE CORPORATION



TELECOM PROVIDER WITH 230M+SUBSCRIBERS



MOLECULAR DIAGNOSTICS COMPANY



INSTANT MESSAGING PROVIDER



ADVERTISING COMPANY



LEADING AERONAUTICS & SPACE RESEARCH CENTER



Industry Focus

Our QA teams are experienced in QA and managed testing services for a range of industries including:



What We Offer



QA consulting services



Quality assessment services



Managed testing services (full-cycle testing services)



Project-specific independent testing services



QA Consulting Services

Our QA consultants help companies adapt to changes in quality management process with no damage to their products, projects and reputation

Project get-in

- Reviewing project documents
- Examining project state
- Interviewing key persons
- Reviewing the project

Understanding project situation

Analysis and planning

- Identifying project problems
- Identifying risks and limitations
- Working out possible solutions
- Identifying KPIs
- Working out a roadmap to reach the KPIs
- Setting timeline and assigning tasks

Problem-solving plan

Implementation

- Implementing the roadmap
- Tracking change risks
- Transferring knowledge to your team

Project issues solved

Support

- Supervising your team's work
- Identifying problems (if any)
- Addressing problems

Root problems addressed



Quality Assessment Services

ScienceSoft offers comprehensive product audit from different angles, including code quality, solution functionality, usability, performance and security. Our quality assessment process consists of 3 steps:



Assessment planning



Assessment implementation

Assessment report

to define quality assessment goals, objectives and scenarios

covers complete or partial code review, functional, usability, performance and security assessment

a detailed report with the list of the detected issues and recommendations on how to fix them



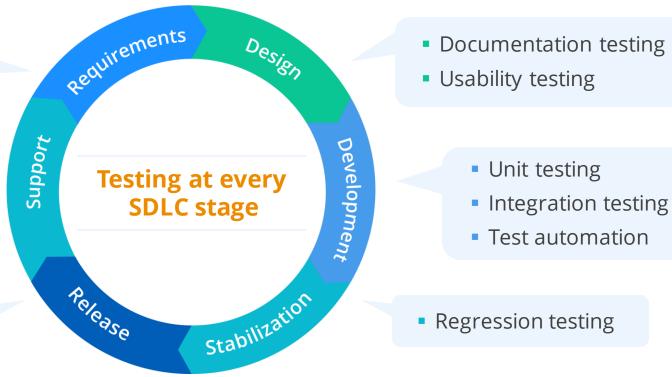
Managed Testing Services

We provide **end-to-end** testing services to ensure all the pieces integrated into your solution are performing as designed from start to finish

Requirements testing

- New features testing
- Upgrade or migration testing

Acceptance testing





Project-specific Testing Services

By aims & goals

- Functional testing
- Usability testing
- Security testing

- Compatibility testing
- Performance testing

By automation level

- Manual testing
- Test automation

Vulnerability management

- Regular security testing.
- Continuous security policy review.
- Implementation of the required remediation measures and code fixes.

Compliance management

- Web application testing
- Mobile application testing
- Desktop application testing
- Data analytics, including big data testing



Functional Testing

ScienceSoft performs functional testing to guarantee that your solution will work everywhere, every time and for everyone.

We provide full-cycle functional testing services:



Functionality testing for compliance with the specification



System and integration testing



Localization testing



Functional test automation



Data migration testing



Performance Testing

Our testing team reveals stress, load, scalability or reliability glitches and ensures reliable work of your product

Testing types we perform:



Load testing



Volume testing



Stress testing



Stability testing



Scalability testing

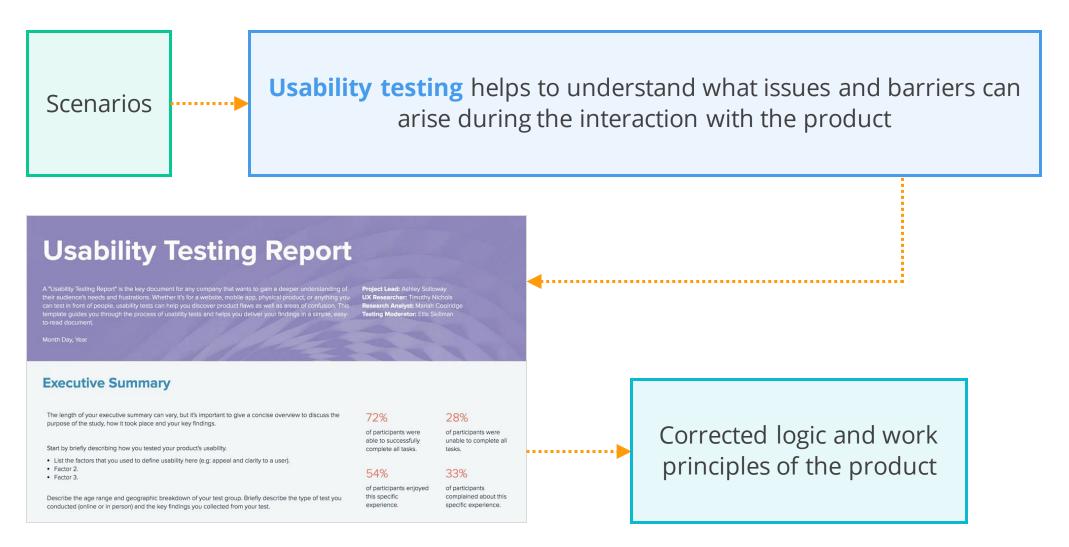








Usability Testing





Security Testing



Penetration testing

to check the protection of the entire IT infrastructure or applications by finding and exploiting security vulnerabilities

Vulnerability assessment

to detect and prioritize security weaknesses in the IT infrastructure and provide recommendations on their mitigation

Infrastructure security audit

to find vulnerabilities in security policies and procedures, security monitoring tools, physical access control, etc.

Compliance testing

to ensure the compliance with PCI DSS, HIPAA, and other regulatory standards

Security code review

to identify encryption, buffer overflow, XSS vulnerabilities, and other security weaknesses possibly overlooked in the development phase











Test Automation

Whether it's web, mobile or desktop, we define and implement appropriate strategies and methodologies for test automation:

- Test automation feasibility study and ROI analysis
- Test automation framework design and implementation

- Test automation tool evaluation. and selection
- Test automation scripting and execution



















Mobile Testing

We offer ample experience in testing iOS, Android and cross-platform mobile applications in various domains.

- Ul testing
- UX testing
- Mobile backend performance testing

- Mobile functional (manual) testing
- Mobile test automation
- Test automation framework design and implementation











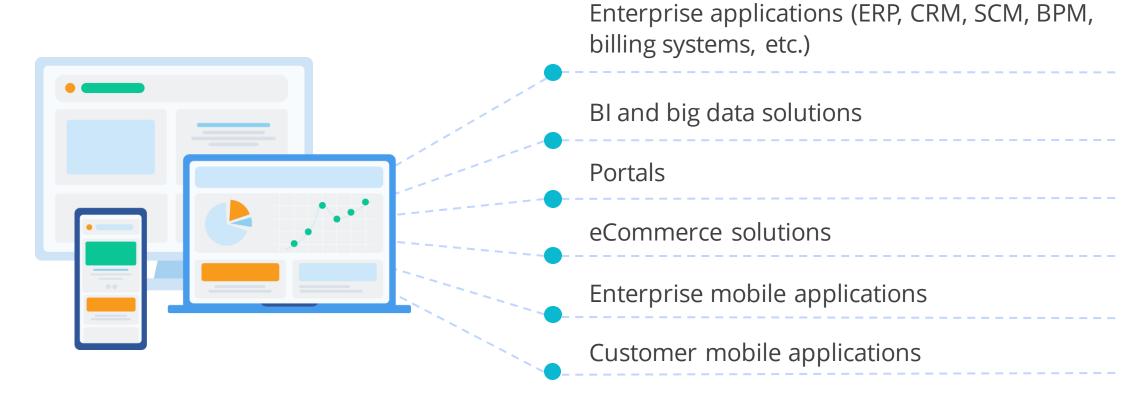








Application Types We Test





For all applications, we assure secure authorization and protection of sensitive data



Cooperation Models



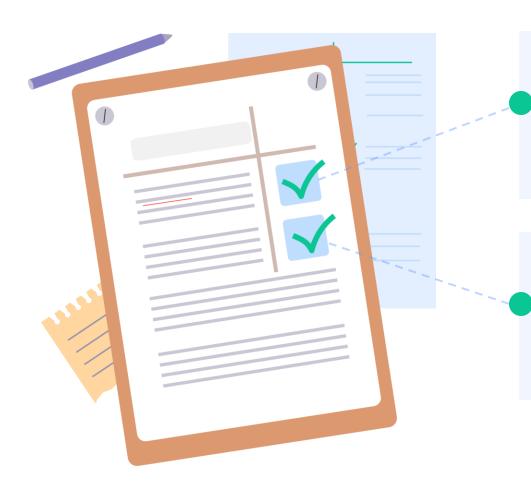


Software Testing Process

Analyzingproject Defining key points of the project requirements **Testing** process Result analysis Test planning and accountability and design Test implementation



What We Do for Each Project Stage



1. Create test documentation required by ISO/IEC/IEEE 29119-3:2013

to ensure systematic and complete test coverage and ensure full visibility of the project's activities

2. Apply proven testing techniques, tools and methodologies

to perform different types of testing and surpass your quality expectations



Project Challenges We Meet







Testing process slows down due to the need to adapt to ever-changing situation

Solution: Domain experience + Risk-based approach



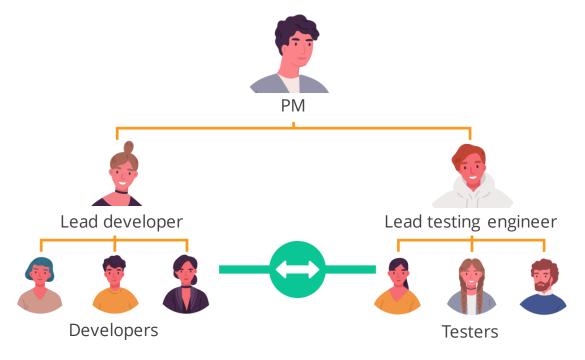
As an experienced testing vendor, we single out test cases for application areas, which are affected by new features, and rank them according to the priority.





Lack of integration between testers and developers may hamper testing efficiency and increase testing time

Solution: Efficient horizontal collaboration







Insufficient or excessive testing are equally harmful. They result in increased testing time, efforts and cost

Solution: Domain experience

Time

Efforts

Balanced

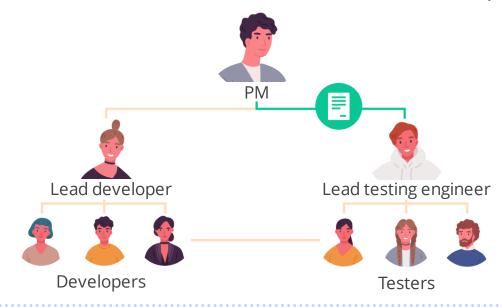
Thanks to extensive domain expertise, our specialists successfully balance testing efforts featuring expected system functionality and vulnerable points





Insufficient control over testing may lead to the lack of project transparency

Solution: Create test documentation and reports



We provide all documents, reports and ad hoc information about project quality so that you stay in control of the testing process



Success Stories

See how we drive frequent releases of high-quality software through mature QA processes aligned with development.





Web App Testing for Mobile Nursing Service Providers

Customer

A European company developing software for healthcare, life sciences, pharmaceutics and related industries.

Solution

ScienceSoft's testing specialists performed functional and regression testing of the web application for mobile nursing service providers. The application has been functioning stably for 5+ years.

Tools & Technologies

TFS (Test manager), MS SQL Server.





Testing of a Web and a Mobile Application for a Care Management Solutions Provider

Customer

A US provider of HIE solutions for providers (hospitals, pharmacies, assisted living and home care systems) and patients.

Solution

We performed functional (700+ checklists), integration, and regression testing for multi-module web and mobile HIE apps.

New app builds were released every 2 to 4 weeks with zero critical defects.

Tools & Technologies

Postman, Atlassian Jira, Confluence.





End-to-End Testing for a Mobile Banking App Rated 4.8 on Google Play

Customer

A commercial bank with \$1.9B in assets and 80 service centers aimed at supporting small and medium businesses.

Tools & Technologies

Atlassian JIRA, UiAutomator.

Solution

ScienceSoft's team performed end-to-end testing of an award-winning mobile banking app with a complex functionality, on 20+ most popular devices, including wearables.





Automated Testing for Insurance Estimation Software of a Worldwide Insurance Company

Customer

A global provider of casualty and accident insurance solutions and other insurance-related services.

Solution

Our test automation team handled the QA for microservices-based insurance software, introducing continuous integration (CI) and continuous testing and applying pairwise design to test against large datasets.

Tools & Technologies

Protractor, TypeScript, JavaScript.





Full-Cycle Testing of a Web Application for Car Insurance Claim Estimation

Customer

A US software development company that provides digital document solutions to insurance companies working in the automotive industry.

Solution

ScienceSoft performed exploratory, functional, UI, integration, cross-browser, cross-platform, localization, and regression testing for three role-based insurance web apps and a mobile web app.

Tools & Technologies

Atlassian Jira, Confluence, Microsoft SQL Server Management Studio.





Testing and Support of BI-Integrated ERP for a Multi-Industry Corporation

Customer

A multi-industry corporation with a nationwide retail and wholesale chain, including gas stations, gardening centers, and roadside cafes.

Solution

Full-scale testing and technical support of a multi-faceted ERP integrated with a BI module. As the application was constantly updated, regression testing was performed each time a new feature was implemented.

Tools & Technologies

.NET, Atlassian JIRA, VMWare Workstation, Microsoft SQL 2008R2, Microsoft Analysis Service, Magento.





Testing of a Video Streaming Application for an International TV Everywhere Service Provider

Customer

A European TV Everywhere provider powering major network carriers, broadcasters and content owners.

Solution

Functional, exploratory, usability and regression testing of each customized version of the B2B hybrid application on 15+ devices, such as TVs, smartphones, tablets, desktop computers and laptops.

Tools & Technologies

Atlassian JIRA, Confluence, Google Drive.





Penetration Testing for Reconice to Improve ePHI Security

Customer



Reconice, the leader of the medical speech recognition software systems in Italy.

Solution

ScienceSoft's cybersecurity experts verified the client's IT infrastructure against vulnerabilities and conducted black box pentesting of their solution used at 500+ healthcare organizations.

Tools & Technologies

Nessus, OWASP Zed Attack Proxy (ZAP), SSLScan, Metasploit, Burp Suite, Nmap, dirb, Dbeaver.





Let's Make Your Project a Success!

Atlanta, Georgia +1 972 454 4730 contact@scnsoft.com **Headquarters** McKinney, Texas +1 214 306 68 37 contact@scnsoft.com **Mexico City, Mexico** +52 55 6952 0374 contact@scnsoft.com

Vantaa, Finland +358 94 272 63 77 Riga, Latvia nordics@scnsoft.com +371 66 011 905 eu@scnsoft.com Vilnius, Lithuania Fujairah, the UAE +370 52 07 97 07 +971 600 57 59 69 eu@scnsoft.com gulf@scnsoft.com Warsaw, Poland +48 22 162 18 13 eu@scnsoft.com Riyadh, the KSA +966 800 880 3035 ksa@scnsoft.com