PARASOFT

ACI Informatica Cuts API Test Creation Time in Half With AI-Augmented Solution

OVERVIEW

ACI Informatica is the in-house company of the Automobile Club of Italy (ACI) specializing in providing ICT services and technology support. On behalf of ACI, it manages the Pubblico Registro Automobilistico (PRA), develops systems for the collection of motorist tax for the affiliated regions, and offers technical assistance to operators in the automotive sector. Its activities are key to ensuring the efficiency and digitization of services related to mobility and automotive data management in Italy.

ACI Informatica works with public administrations to develop innovative digital solutions, contributing to the country's digital transformation. The company participates in projects to modernize and integrate national information systems, fostering synergies between public bodies and improving data accessibility and security for citizens and businesses.

ACI Informatica
Innovativi per tradizione

Industry:
Information Technology

Location:
Rome, Italy

Solution:
SOAtest

KEY RESULTS

Reduced the time to create API test suites.

Adapted to different testing needs.

Flexible licensing for scalability.

THE CHALLENGE

ACI Informatica developed a new application for ACI for the management of Regional Motor Vehicle Taxes (NSTAR). The team develops the application in modules. These modules interact with each other and connect through the web interface.

Some of NSTAR's main modules include the following:

» Tax Position builds vehicle tax periods.

» Stamp Calculation, called by the collection services, calculates the tax period stamps.

» Claims allow management of information necessary to calculate the stamp duty (exemptions) and to carry out post-collection operations (refunds and defensive memoranda).

» Litigation allows opening campaigns to manage the recovery of the uncollected tax.

With an objective to develop and release all of its software with comprehensive testing coverage, the development team knew they must improve their test suite with every possible scenario to ensure the software could handle anything.

The challenge was maintaining coverage while improving the test suite with new scenarios and features—even during future software upgrades.

THE APPROACH

The previous testing automation process involved the use of some market tools and a manual functional testing process. ACI Informatica identified the need to expand and extend the scope of testing—including that related to automation.

The team's initial requirements included the following:

» Complete testing coverage on all use cases during the development of the tax calculation software.

» Ability to grow the test suite with the implementation of new features and software updates.

» Automated software tests to ensure coverage for every update and new scenario.

» Ability to test and adhere to all internal testing requirements.

THE SOLUTION

Dale Consulting, a Parasoft partner, introduced the ACI Informatica development team to Parasoft SOAtest, a fully integrated, automated API and web service testing solution powered by AI and machine learning.

SOAtest proved itself essential because it comprehensively addressed the team's automation and coverage needs. Additionally, the tool integrated all testing areas into a single platform, enhancing testing quality, reporting, and project management.

Dale Consulting, a Parasoft partner, provides consulting services to major national organizations in the IT industry. Through the team's expertise, it contributes to the implementation and management of products, services, and tools of high strategic value.

THE RESULTS

ACI Informatica's team of developers and testers experienced effective onboarding through Parasoft's training program. Since then, they've observed several benefits, including the following.

» Improved API test productivity by creating test suites in half the time.

» Ability to perform both continuous development and occasional testing due to versatile testing options.

» Scalability thanks to flexible licensing.

ACI Informatica seamlessly integrated SOAtest into their development workflow for important, strategic projects. This evolution to automated testing speeds up the process for each new software release. By adopting Parasoft's solutions, the development and testing teams are improving the quality, efficiency, and scalability of their testing processes.

IMPROVED PRODUCTIVITY & EFFICIENCY

The team used SOAtest to create and manage functional test suites, which were particularly effective on projects with REST API services. SOAtest proved to be a valuable ally by automatically maintaining test suites, saving the team valuable time compared to previous methods.

The team can also generate detailed, user friendly reports based off the easy-to-use LoadTest module, which tests the performance of specific functional tests developed in SOAtest. Its automatic reporting function, which sends periodic emails to project managers, adds value by enabling them to monitor and share test results in a timely and accurate manner.

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VERSATILE TESTING SIMPLIFIES PROCESSES

ACI Informatica's developers and testers appreciate SOAtest's versatility. They can use it for both one-time testing activities and occasional checks, as well as continuous development projects that require frequent, dynamic tests for ongoing development. It's a flexible tool that the team can adapt to different testing needs, optimizing time and simplifying processes.

FLEXIBLE LICENSING FOR SCALABILITY

A significant advantage of Parasoft is the flexibility of the licensing model, which doesn't assign licenses to specific projects. Instead, they're allocated based on team activities. This allows easy reuse of licenses for new projects or when team members change, optimizing resources and ensuring efficiency.

TAKE THE NEXT STEP

Request a demo to see how your team can accelerate and improve API testing with an automated, AI-enhanced solution.

ABOUT PARASOFT

Parasoft helps organizations continuously deliver high-quality software with its AI-powered software testing platform and automated test solutions. Supporting the embedded, enterprise, and IoT markets, Parasoft's proven technologies reduce the time, effort, and cost of delivering secure, reliable, and compliant software by integrating everything from deep code analysis and unit testing to web UI and API testing, plus service virtualization and complete code coverage, into the delivery pipeline. Bringing all this together, Parasoft's award-winning reporting and analytics dashboard provides a centralized view of quality, enabling organizations to deliver with confidence and succeed in today's most strategic ecosystems and development initiatives—security, safety-critical, Agile, DevOps, and continuous testing.