

iTEST

Test Framework for Pega[®] Applications

iTEST - Test Framework for Pega Applications

Incessant's iTEST framework allows organizations to accelerate their testing automation initiative for Pega applications. Based on Selenium & TestNG, iTEST provides a data driven framework that has capabilities for testing authentication, role based security, portals, navigation, search, reports, dashboards and many other application related functional areas.

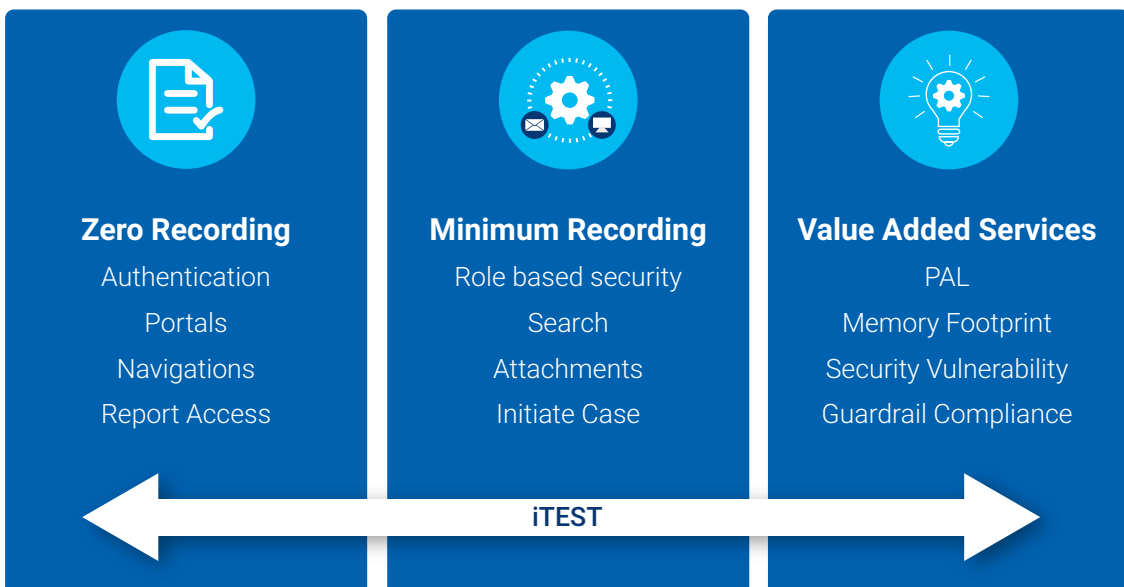
In addition to the functional testing of the application, iTEST contains a quality module that checks the Guardrails for conformance, PAL for performance, Security Analyzer for vulnerabilities as well as Clipboard introspection for memory usage.

Business Challenges

- » Initial investment required to adopt testing automation
- » Recording and maintenance of the automated test suites
- » Dependency on tool specific knowledge and skills
- » Inability to automate Pega white-box testing alongside functional automation tests
- » Inability to easily incorporate new test scenarios without excessive test script re-work
- » Lack of standardization of test frameworks across the enterprise
- » Inability to test applications effectively, due to multiple operating systems and web browsers

Solution Overview

iTEST delivers testing automation at 3 levels, Zero Recording, Minimum Recording and Value Added Services

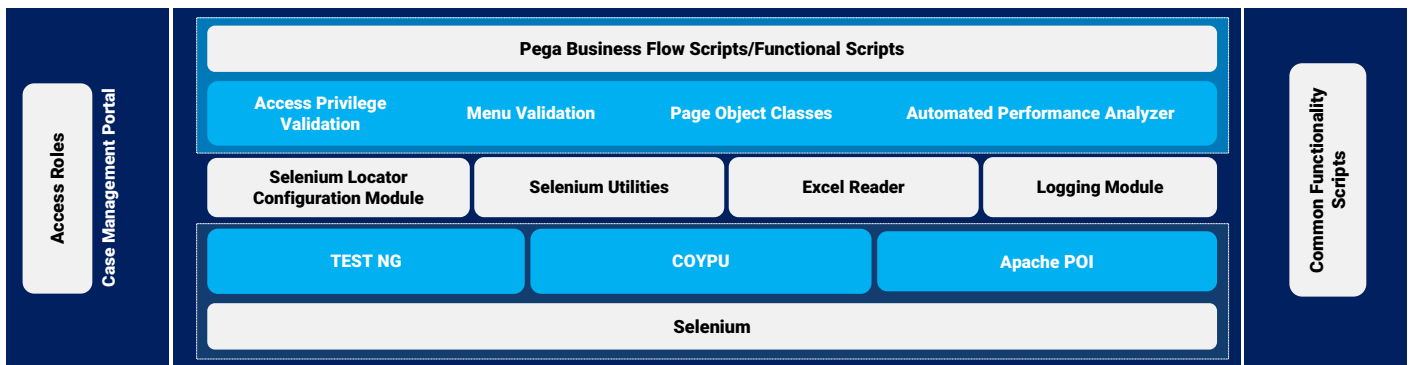


Zero Recording – can be used to test common aspects of the application including authentication and portal menu contents, via data driven configuration

Minimum Recording – can be used to automate the role based security of the application portals

Value Added Services – performs white-box automated testing of the application and captures PAL readings, runs the Security Analyzer and checks for Guardrail compliance

iTEST Framework



iTEST has a layered framework comprising of 3 layers:

- » The Core layer of iTEST Framework is provided by Selenium, along with other Industry standard testing tools like TestNG and COYPU
- » The Configuration layer of the framework provides a data driven capability using Selenium Locator and Excel Reader components
- » The Framework layer exposes a rich set of services that can be plugged into existing automation tools

Data Driven Security Access Configuration

Case Type	Initiate Case					Search					Attach					Routing					Approve				
	Admin	Loan Offer	Underwriter	Loan Processor	Approver	Admin	Loan Offer	Underwriter	Loan Processor	Approver	Admin	Loan Offer	Underwriter	Loan Processor	Approver	Admin	Loan Offer	Underwriter	Loan Processor	Approver	Admin	Loan Offer	Underwriter	Loan Processor	Approver
Enrolment	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Review	Y	N	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	N	Y	Y	Y	Y
Approve	N	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	Y	N	Y	N	N	Y	N	Y

- » The data driven configuration layer provides the ability to test security access for each case type, by function and actor
- » The automation test scripts use this configured data to check the associated access constraints

iTEST Framework Business Benefits

- » Standardize and expedite the adoption of test automation for Pega applications across the enterprise
- » Ability to automate Pega component based white-box testing leveraging PAL, Security Analyzer and other core Pega platform features
- » Pega Rule test coverage feature that checks the configuration coverage whilst running the automation test scripts
- » Ability to easily incorporate new test scenarios by data driven configuration
- » New Selenium features can be easily be taken advantage of by the framework
- » Testing Automation of Pega applications across multiple operating systems and web browsers

Orchestrating the **Digital** Enterprise™

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About Us

Incessant Technologies, an NIIT Technologies company, helps global organizations realize their Digital Integration goals through the agile delivery of enterprise iBPM solutions. Incessant's Pega® Practice has unmatched certification levels in the industry, thereby providing highly experienced teams on customer engagements. With experience of over 200 successful customer implementations and a suite of Pega Platform productivity solutions, Incessant delivers significant value to its customers in Insurance, Banking & Financial Services, Government and Manufacturing. Orchestrating the Digital Enterprise is at the heart of everything we do. With our expertise in the Pega 7 Platform we deliver CRM, Case Management, RPA and Decisioning solutions that transform organizations into the digital businesses of tomorrow.