



Insurer saves 80% in daily build validation effort with Guidewire Test Automation





Challenges

- Limited test coverage
- Daily build verification was performed manually
- Huge manual effort needed in releases for regression testing
- Constricted regression cases resulting environment & impact defects
- Limited test data sets used for validation

Solutions

- Automated test suites for Smoke and Sanity Testing
- Regression test suite for multiple product tracks
- Implementation Continuous Integration of Test Suite using Jenkins
- Implemented parallel execution
- Increased test coverage across applications

About The Customer

Our valued client is a software publisher headquartered in Foster City, California. Their primary focus lies in providing core back-end software tailored for property and casualty (P&C) insurance carriers in both the United States and around the globe. They have a wide partner ecosystem and an extensive list of insurers as customers, ranging from new ventures to the largest and most complex organizations worldwide.





Results

- 80% reduction in daily build validation effort
- 75% effort-saving achieved via automation
- Over 400 automated scripts for various applications
- Defect leakage reduced and reduced to <5%
- Reduced release cycle to 1 day

Challenges

Our client encountered a multitude of challenges that negatively affected both the testing process and the overall project timelines. These challenges had various quality implications and hindered the progress of the project. Some key challenges they encountered were:

- » **Limited test coverage** for each release caused by scarcity of resources in functional testing
- » **Daily build verification** was a challenge due to frequent code deployments from six different product teams into the single Test Environment
- » **Redundant manual effort** was involved in the releases for regression testing
- » **Constricted Regression cases** and limited Defect coverage due to vast manual effort requirement (SM)
- » **Limited test data sets** used for validation in each release due to complex vendor integration processes
- » **Extended test cycles due to complexities in setting up the test data** and functionality flows between applications

The client also wanted to build a regression suite for their multiple product tracks to reduce the regression cycle in each release.



Solutions

Comprehensive and tailored solutions were provided to the client by our team of testing experts, which enabled the client to overcome their testing phase challenges with ease.

Here are the key highlights of our proposed remedy:

- » Our team of experts introduced an apt Build Acceptance Test Suite (BAT Suite) matching the 6 product requirements to Stabilize the Test Bed amid the incessant build deployments from various product teams
- » We developed a regression test suite for multiple product tracks such as auto, home, umbrella with TestCafe tool
- » Continuous automated testing accompanied through Jenkins
- » Parallelized test execution reduced the overall test execution duration around 60-70%
- » Our Test Automation solution enabled our client to Surge the Regression Test coverage across - Policy center, Billing center, Claims center, Portals & Comprater & EZLynx
- » Our testing experts ensured traceability among functional and test automation coverage using JIRA tool



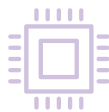
Results

The comprehensive automation testing solution provided by Aspire Systems resulted in ~40% reduction in regression efforts. By incorporating suitable solutions into their testing phase, the client experienced seamless and efficient testing procedures, leading to high-quality releases.

- » **80% reduction** in daily build validation effort was achieved after automated smoke tests were employed
- » Through the **75% effort-saving** attained via automation, the team effectively reduced the release cycle to a mere 1 day
- » More than **400 scripts were automated** with Downstream validations across various applications in both API and UI automation. This resulted in a substantial reduction in regression efforts
- » Regular automation runs successfully minimized defect leakage, Arrested Environmental & Impact defects and enabled a Stable Test Environment for Functional Testers in BAU



Tools Snapshot



1. Testcafe
2. JavaScript
3. Jenkins
4. Git
5. JIRA



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