

Quality Engineering

Global apparel retail • Test automation

Global Apparel Retailer Establishes Scalable Test Automation Ecosystem to **Accelerate Quality Engineering and Release Velocity**

- ✓ 90%+ automation coverage, reducing manual testing effort
- ✓ Accelerated release cycles through CI/CD-driven validation
- ✓ Reduction in regression testing time through parallel execution

AT A GLANCE Engagement Snapshot



Industry

Apparel & Retail



Practice area

Quality Engineering



Outcomes tracked

7

The challenge

The customer operates a dynamic retail ecosystem with frequent releases, global expansion, and multiple integrated applications. The organization faced heavy dependence on manual testing, which slowed sprint velocity. Increasing complexity across platforms made it difficult to cover edge cases and integration scenarios. There was also a lack of a scalable automation framework and dependency on test data availability, impacting testing timelines. These challenges increased the risk of defect leakage and impacted overall customer experience.

What Everest delivered

Everest Technologies implemented an enterprise-grade test automation ecosystem, enabling scalable and efficient quality validation across the retail landscape.

| Solution components

- **Playwright-based automation framework with JavaScript**
Stable UI automation
Cross-browser testing (Chromium, Firefox, WebKit)
Parallel execution
Modular Page Object Model
- **Over 90% functional test cases automated, covering complex edge cases and integration scenarios across digital commerce, omnichannel, and supply chain workflows**
- **API automation framework using Spring Boot and Rest Assured**
Validation across OMS, eCommerce, and PFS systems
Schema validation, auth, and database checks
Delivered as Test-as-a-Service
- **Multi-layer testing strategy**
UI, API, and database validation across systems
- **CI/CD-integrated automation with 24/7 pipeline support for continuous and production deployments**
- **Auto-healing automation, parallel execution, and resilient frameworks adaptable to UI/environment changes**
- **Centralized Test Data Utility Platform (Data Portal) for dynamic order creation, commit workflows, and cross-system SKU lookup**

| Quantified impact

90%+

Automation coverage, reducing manual testing effort

| Impact & outcomes

- 90%+ automation coverage, reducing manual testing effort
- Accelerated release cycles through CI/CD-driven validation
- Reduction in regression testing time through parallel execution
- Improved test stability and reduced flakiness using Playwright
- Reduced dependency on manual test data through Data Portal
- Lower maintenance effort with auto-healing automation
- Higher release confidence with minimal defect leakage