ROBUST AUTOMATION FRAMEWORK FOR WEB APPLICATION TESTING

Improves Quality and Reduces Time to Market

Client Background

- Our client is a pioneer in networked crisis communication.
- The company's Windows application had a huge set of regression test cases, which increased time to market due to manual QA efforts
- The company needed to execute the same test suite in different application versions and browsers; all test cases had to be independent and robust to execute in batches on any environment
- The company spent significant time and effort in test data generation and still faced production bug leakage and customer dissatisfaction
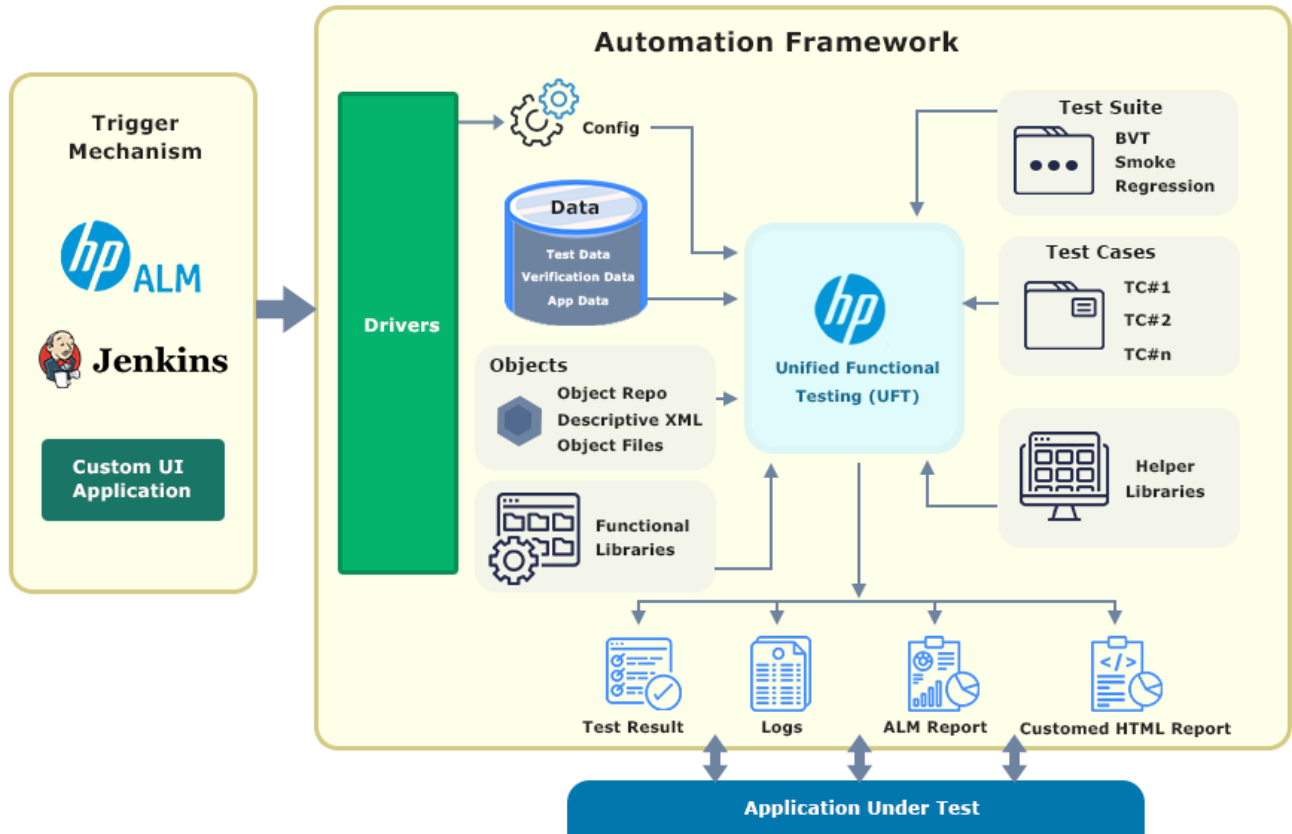
Xoriant Solution

- Xoriant developed a robust automation framework to serve all of the client's functional and technical testing requirements
- We implemented libraries dedicated for test data generation using stored procedures and API
- We integrated the solution with a test management tool (ALM) and CI tool (Jenkins)
- The solution supports parallel execution of the test suite across multiple systems, cross-browser testing and localization
- We executed a test case grouping mechanism to optimize test execution flow and reduce execution time
- Global test objects and application-specific libraries reduced maintenance efforts

KEY BENEFITS

- 300% ROI achieved in 3.5 years
- Reduced testing efforts for regression test cases by 70%
- Reduced bug leakage by 40% in cross browser testing and testing with different browser settings
- Enabled 65% reduction in overall product testing
- Test automation triggers immediately once the build is successful
- Broadened test coverage
- Extensive automation runs identify bugs at an early phase

High Level Architecture

Technology Stack

Xoriant is a product engineering, software development and technology services company, serving technology startups as well as mid-size to large corporations. We offer a flexible blend of onsite, offsite and offshore services from our eight global delivery centers with over 3600 software professionals. Xoriant has deep client relationships spanning over 30 years with various clients ranging from startups to Fortune 100 companies.