

CASE STUDY

Streamlining Patent Law Software Testing: Achieving Efficiency and Stability through Test Automation



OVERVIEW

The client is a leading patent law consultancy firm that specializes in a web-based application, their flagship product. This application empowers attorneys to efficiently search and analyze patent claims and perform essential functions like Freedom-To-Operate (FTO) chart creation, custom patent charting, and portfolio visualization and analysis.

CHALLENGES

The application's vastness and complexity led to prolonged manual testing, impacting efficiency. Frequent enhancements and tight release schedules necessitated a more effective solution for functional and regression testing.

The client's testing requirements prioritized comprehensive coverage of all application functionalities with a minimal smoke level in each release, allocating a three-week timeframe for thorough testing without downtime.

INDUSTRY

- Legal

SERVICES

- Functional Testing
- Test Automation

TECHNOLOGY

- Selenium IDE/RC
- TestNG
- Java
- Jscript
- TestLink
- Jira5



Challenges encountered included an application with production bugs, real-time test data replication and parsing issues, monthly/quarterly releases with frequent requirement changes, and complicated functionality.

SOLUTION

As a part of the solution, Contata presented a comprehensive test plan to the client, encompassing the scope, approach, effort, milestones, and deliverables for testing. Leveraging the Selenium framework, the entire testing process was automated, resulting in significant reductions in manual and repetitive testing efforts.

Phase I focused on automating smoke test cases to assess application stability and identify areas for improvement. Phase II involved continuous enhancements to the Selenium framework, incorporating features such as robust reporting and automatic emails to selected users for results during automated testing

BENEFITS

- 80% time savings on functional testing
- Significant time savings on regression testing
- Regression suite automated
- Early detection of issues made possible
- Automatic report and email generation
- More stable and secure application with no issues in production
- Increased visibility of the testing infrastructure

About Contata

Contata Solutions is a trusted leader in technology and digital innovation. Through our work in data engineering, data analytics, machine learning, marketing automation and app development, we deliver solutions that address complex problems in ways that are simple, insightful and impactful.

Our promise and value proposition to our customers is simple: we leverage our deep technical expertise and global presence to bring software products and data-driven decision capabilities to life.

Founded in 2000, Contata is a privately-held company headquartered in Minneapolis that serves clients globally from offices in the United States and India.