

This client improved testing efficiency, accelerated the process and streamlined their **automation testing lifecycle**.

- 60% of regression testing life cycle span was reduced.
- Running 200+ scenarios per development release
- Teams testing efficiency was increased by 3 times.



Introduction

This client, an IT services provider, developed an efficient IT asset management tool for organizations. As the tool gained popularity and the user base expanded, they realized the need for efficient and reliable testing. They decided to adopt an automated testing approach to improve their testing efficiency and reduce manual efforts.

Adaquare assisted in selecting Katalon due to its user-friendly interface, extensive features like cross-browser, cross-platform compatibility, API testing, seamless integration, and comprehensive reporting capabilities.

Business Challenge

- ✦ **Release of updates and new features:** With one major release per month and few adhoc dot releases in between was challenging in terms of timely completion of regression testing and functional testing.
- ✦ **Limited Test Coverage:** Due to limitations in time and resources, QA team was focusing only on critical functionalities, and predefined test cases, leaving potential edge cases or less commonly used features untested, leading to undetected defects or issues in the IT asset management tool.
- ✦ **Complex application scenarios:** The applications developed by the client were complex in nature hence required comprehensive test coverage.
- ✦ **Bug Fixing in Development phase:** Discover bugs in the development phase and avoid bug piling in APIs.

Technology Stack



○ Solution Design and Highlights:

- **Planning and Framework Design:** Adaequare worked closely with Client's team to define the automation strategy, and enabled the client teams in adopting to the automation framework provided by Katalon by identifying the application's key functionalities and categorized them into test modules to come up with the overall automation efforts, automation plan and prioritized task list.
- **Expanded Test Coverage:** ADQ's test automation solution covered critical functionalities, data accuracy, integration points, reporting capabilities, and performance benchmarks along with the edge cases and less commonly used features. Ensured comprehensive test coverage across different aspects of the IT asset management tool.
- **Migration to Katalon:** We successfully transitioned all test cases to Katalon and seamlessly integrated them with DevOps, enabling continuous build and release management.
- **API Testing** Utilizing Katalon Studio, we defined the essential API objects, generated corresponding API test scripts, and conducted comprehensive testing by invoking the APIs with varied parameters.

○ Benefits and Results

Adaequare's successful implementation of Katalon effectively addressed several challenges for the client, including:

- Reduced the span of regression testing cycle by 60%.
- Enable the team to run 200+ regression scenarios with short notice.
- The team's testing capacity has tripled as they can now systematically validate the application's logic, ensuring APIs are bug-free and functional.
- Clients now receive detailed test reports with comprehensive information. These reports include execution logs, screenshots, and performance metrics, providing valuable insights for efficient issue identification.

○ Conclusion

Adaequare's implementation of Katalon increased client's testing efficiency, streamlined bug fixing process in development phase and saved 60% of testing effort resulting in significant cost savings year after year.