



OPCITO TECHNOLOGIES

Automation Testing of a Core Banking Application

About The Customer

The customer is a banking solutions provider dedicated to equipping urban cooperative banks with cutting-edge technology. Their core banking platform is designed for agility and adaptability to satisfy the needs of the rapidly evolving landscape of the banking sector. Their solution offers a customer-centric approach that enables banks to seamlessly integrate new features, comply with evolving regulatory guidelines, and cater to diverse customer needs.

Business Challenge

The team faced several significant challenges that hindered their overall productivity and efficiency. The lengthy 90-day regression cycle delayed release schedules and made it difficult to adapt to market changes, ultimately increasing the likelihood of errors in production. Compounding this issue, manual smoke testing proved to be slow and unreliable, creating a risk that critical issues could go unnoticed.

Additionally, the quality assurance (QA) testing conducted during development took too long, further delaying the rollout of new features essential to staying competitive. The reliance on manual testing also required an extensive and costly team, placing additional strain on resources. Moreover, the complexity of the core banking systems complicated thorough testing, while strict banking regulations mandated extensive testing for compliance, adding yet another layer of difficulty to the process.

How Opcito Helped

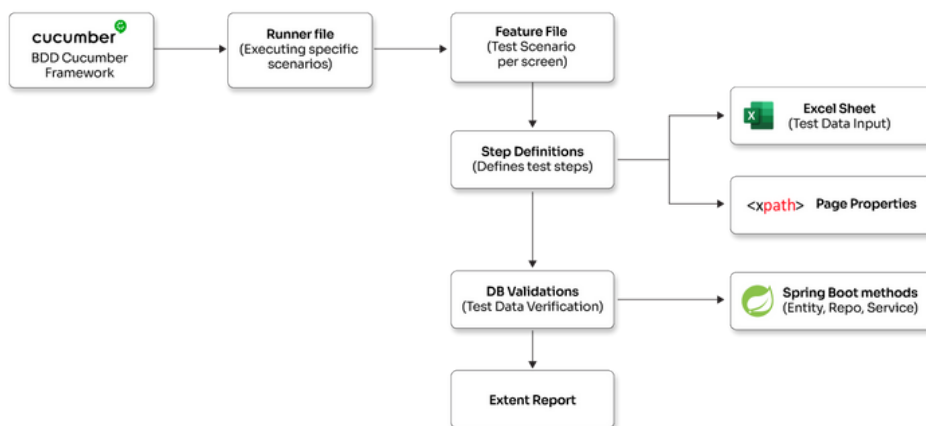
To address the customer's challenges of slow releases, inefficient testing, and high costs, Opcito's experts implemented a comprehensive automation strategy. This focused on thorough analysis, strategic framework selection, custom script development, improved reporting, and a phased rollout to ensure a smooth transition and significant improvements in efficiency and quality.

- **Comprehensive test analysis:** Opcito's dedicated team undertook an extensive and meticulous analysis of the customer's core banking application, pinpointing vital workflows and identifying crucial test cases that were prime candidates for automation. Their detailed examination ensured that every key component of the application was thoroughly

How Opcito Helped

understood and considered.

- **Strategic framework implementation:** The selection of the Cucumber framework, in conjunction with Selenium and Java, established a robust and maintainable automation solution tailored to meet the customer's needs. By leveraging Cucumber's Behavior-Driven Development (BDD) approach, we enhanced collaboration among developers, testers, and business stakeholders, bridging communication gaps and ensuring alignment throughout the project.
- **Customized automation scripts:** Opcito crafted bespoke automation scripts tailored to the customer's unique specifications, ensuring comprehensive test coverage. These custom scripts not only enhanced the efficiency of the testing process but also addressed the application's specific functionality needs.
- **Enhanced reporting and defect management:** The integration of Extent reports offered detailed and visually captivating test results, transforming raw data into easily understandable insights. Additionally, the seamless integration with JIRA streamlined defect tracking and resolution processes, efficiently managing identified issues and enabling a proactive approach to quality assurance.
- **Phased implementation:** Opcito adopted a strategic phased implementation approach for the automation project, focusing first on high-priority test cases before gradually expanding the coverage to encompass additional areas. This methodical rollout minimized disruptions to ongoing operations and facilitated a smooth transition, ultimately ensuring that the automation process was effective and sustainable.



Technologies, Tools, and Platforms used

SELENIUM WITH JAVA

CUCUMBER
FRAMEWORK

EXTENT - REPORT

Benefits

REDUCED REGRESSION CYCLE TIME	The reduction from 90 days to 15 days significantly accelerated release cycles, enabling faster time-to-market
IMPROVED QA TAT	The streamlined QA process resulted in faster turnaround times for testing during the implementation phase
OPTIMAL RESOURCE UTILIZATION	Reduced the effort on manual testing, freeing up resources to focus on other tickets raised

About Opcito

At Opcito, we believe in designing transformational solutions for our customers, start-ups, and enterprises, with our ability to unify quality, reliability, and cost-effectiveness at any scale. Our core work culture focuses on adding material value to your products by leveraging best practices in DevOps, like continuous integration, continuous delivery, and automation, coupled with disruptive technologies like containers, serverless computing, and microservice-based architectures. We also believe in high standards for quality with a zero-bug policy and zero downtime deployment approach.