



## Bringing in Efficiency by Leveraging Behavior-Driven Test Automation Solution for a U.S. Based Bank

### Client

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The Client is a cooperative, wholesale bank that helps meet community credit needs by providing readily available, competitively priced credit products and services to financial institutions. Members include commercial banks, credit unions, industrial loan companies, savings institutions, insurance companies and community development financial institutions.

### Challenges

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With over 1,000 manual test cases, the testing process for the Client's core application was quickly becoming very challenging to maintain and execute due to limited technical capability. The Client found the process of testing tedious and cumbersome, owing to the time taken to test each upgrade to their core application. Given this requirement, the Client wanted to find a solution that would help the bank:

- ▶ Reduce the testing time
- ▶ Increase the number of test cases
- ▶ Improve the overall system quality without introducing additional testing time

In addition to the challenges mentioned above, the bank wanted their test automation framework solution to enable them to align software development and testing groups, all while integrating their global delivery team that worked across multiple locations.

### Solution

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Opteamix conducted a discovery phase to understand the business challenges in detail. After consulting with the Client, the Opteamix team laid out a plan of action that included an Acceptance Test-Driven Development (ATDD) methodology as part of the Software Development Life Cycle (SDLC). Opteamix also proposed a high-level Test Automation roadmap which provided visibility on the approach, implementation plan and financials to solve the business challenges.

Based on the solution identified as part of the roadmap, Opteamix implemented a Behavior Driven Development (BDD) - based Test Automation framework that helped the bank automate around 90% of the test cases. In addition to the test automation, end-to-end integration with DevOps was also implemented.

## Value Delivered

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Opteamix implemented a holistic BDD-Based Test Automation framework that reduced test execution time and helped optimize costs, enabled enhancements without affecting schedules and ensured reliable quality metrics. This Test Automation framework was **delivered within six months** and resulted in a host of benefits to the bank. Some of which are listed below:

- ▶ The testing cycle has come down **from a four-person team that worked for three days to complete the testing cycle to a single person who takes eight hours (unattended)** to execute the tests
- ▶ The total UAT turnaround time has been **reduced by 75%**
- ▶ Eliminating the heavy dependency on the QA team for test execution has been achieved (as the automation suite can be triggered through Jenkins)
- ▶ Automation scripts are prompted to run daily in the QA as part of Regression Testing to ensure that any new integrated code or enhancement is tested regularly rather than waiting till the end of the release
- ▶ Implementing the BDD-based Test Automation is helping the bank make monthly production release a possibility
- ▶ The Client is currently saving money that would have otherwise been spent on acquiring UFT licenses using open-source tools
- ▶ Report generation has also been automated for fast and efficient insights

## About Opteamix

Opteamix is a digital automation technology consulting firm with deep expertise in Application Development, Robotic Process Automation, Artificial Intelligence, DevOps, Enterprise Mobility, and Test Automation Services. We are headquartered in Denver, Colorado with a wholly-owned delivery center in Bengaluru, India.