OPTEAMIX

Implementation of Test Automation Solution for a US-Based Bank

Client

The Client is a US-based cooperative wholesale bank, that helps meet community credit needs by providing readily available, competitively priced credit products and services to member financial institutions.

The members include commercial banks, credit unions, industrial loan companies, savings institutions, insurance companies, and community development financial institutions from Arizona, California, and Nevada.

Challenges

With each enhancement to the application, the client found the process of testing tedious and cumbersome, owing to the amount of time taken to test each upgrade. Thus, the client wanted to find a way to reduce testing times, increase the number of test cases, and improve the overall system quality without introducing additional testing time.

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. In addition to the aforementioned challenges, the bank wanted their test automation framework solution to enable them to align software development and testing groups, all while integrating their onshore and offshore teams.

Solution

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 SDLC and 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 achieved and report generation was automated.

Value Delivered
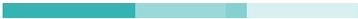
Opteamix delivered a complete end-to-end test automation framework that not only reduced test processing time but also help optimize costs, enabled enhancements without affecting schedules and ensured reliable quality metrics. This powerful framework was delivered within 6 months and resulted in a host of benefits to the bank. Some of which are listed below -

- The testing cycle came down from a 4 person team that worked for 3 days to complete the testing cycle, to 1 person who took 8 hours (unattended) to execute the tests.

- The solution implemented not only helped the bank reduce costs by reducing the number of test personnel required but through the use of open-source tools, it helped save money that would have otherwise been spent on acquiring UFT licenses.

- Helped reduce the total UAT turnaround time by 75%.

- Eliminated the heavy dependency on the QA team for test execution as the automation suite could be triggered through Jenkins.

- Automation scripts were prompted to run daily in the QA as part of Regression Testing to ensure that any new integrated code or enhancement is tested on a regular basis rather than waiting till the end of the release.

- Implementation of the test automation helped the bank make monthly production release a possibility.

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 Bangalore, India.