

Accelerated Time to Market through Quality Assurance Automation for FinTech Company in APAC

Client Overview

The client is a banking solutions provider that specializes in omnichannel digital banking solutions for leading banks across Asia, the Middle East, and Africa.

The Business Situation

The client provides several banking solutions to modernize the banking experience for their customers and also to help them in their digital transformation journeys. However, testing of these solutions consumed significant time and effort with every iteration, leading to delays in time-to-market and increase in costs. The client required a comprehensive solution integrated with CI/CD that would help automate and monitor the quality assurance process. Through the automation, they hoped to reduce the significant time, effort, and costs invested in QA and also the time to market for their solutions.

The Solution

With deep expertise in delivering QA Automation excellence for major BFSI organizations, GS Lab | GAVS architected and built an end-to-end Quality Automation Framework that greatly improved testing efficiency and lowered costs by maintaining testing scripts in a single repository. The solution components included:

Quick Script Generation

The solution enhanced reusability of code with easier and faster ways to generate scripts with execution of multiple sets of data.

Script Automation

Test data and validation data were separated from the test case logic and hence any changes made to the test case did not affect the data. The team created automation scripts for both Android and iOS. Emulators were used for test execution and validation.

Seamless Integration and Visualization

The CI/CD integration was successfully enabled. Dashboards and visualizations were created for easy accessibility, collaboration, and empowered decision making.

Challenges

- Manual quality assurance process
- Significant consumption of time and effort in iterative testing
- Lack of integration between the development and QA processes
- Unstructured approaches to test case/test data creation and execution
- Delays in introducing new/refined features to the market
- Increased costs due to process inefficiencies

Solution Highlights

- End-to-end Quality Automation Framework
- Automation scripts created for Android and iOS
- Tight integration with CI/CD
- Dashboards and visualizations for complete visibility and monitoring
- Maintenance of test scripts in a single repository

Solution Outcomes

- Drastically reduced cost of quality assurance with automated scripts
- Significantly faster time to market
- Speedy test execution through parallel execution
- Lowered costs due to maintaining test scripts in a single repository
- Seamless integration with new environments installed for products/projects