

CASE STUDY

We Automated 10,000+ Banking Test Cases in 9 Months.

Here's Exactly How and What It Delivered.

A leading regional bank partnered with Maveric Systems to transform its Quality Engineering function - shifting from a predominantly manual testing model to an automation-first strategy across its entire banking technology stack. Over nine months, a dedicated Maveric team automated 10,000+ test cases across 13 applications, delivering measurable gains in speed, coverage, cost, and team productivity.



9 MONTHS
Engagement



1 + 7
Architect + Engineers



13 APPS
Automated



Agile Sprints
Delivery Model

The Challenge



Scale Without Structure

10,000+ test cases identified across 13 critical banking applications — Core Banking, Cards, Mobile & Internet Banking, Trade Finance, Payments, and Capital Markets — with no central management system in place



Absence of CI/CD Integration

Every release required lengthy manual regression cycles. No automated pipeline meant slow, costly delivery with no release gating mechanism



Specialist Lock-In

Functional testers - who owned business domain knowledge - were locked out of test execution. Only automation engineers could run scripts



Manual Test Data Creation

All test data was created by hand, consuming significant QE bandwidth and introducing inconsistency and error into every test run



Legacy Core Banking Complexity

Finacle (core banking platform) required deep customization to automate. Standard frameworks could not handle its UI, API, and database layer complexity

The Solution

To enable the client's transition to automation-first, Maveric designed & implemented a scalable, enterprise-grade test automation ecosystem using modern open-source technologies and DevOps practices.

Unified Multi-Channel Framework

End-to-end automation across Web, Mobile, API, and Database layers - built on open-source technology for enterprise stability, scalability, and vendor independence

CI/CD Pipeline Integration

Integrated with Git, Jenkins, and Maven to create a continuous execution pipeline with centralised script management, automated monitoring, and dependency handling

Low-Code Execution Interface

A Java-based UI enabling functional testers to create, execute, and track automated cases without scripting expertise - dramatically accelerating adoption across teams

Advanced Reporting & Insights (Allure)

Real-time visibility into test execution status, automation coverage, trends, and quality metrics - enabling faster decision-making and issue resolution across stakeholders

AI-Powered Image Validation

Extended automation coverage for complex UI scenarios where traditional object recognition was unreliable - using image-based validation for accuracy and resilience

Enterprise Test Data Management

44% of test data auto-created via database integration and structured repositories - reducing manual effort and improving consistency across all test runs

Centralized Execution via Selenium Grid

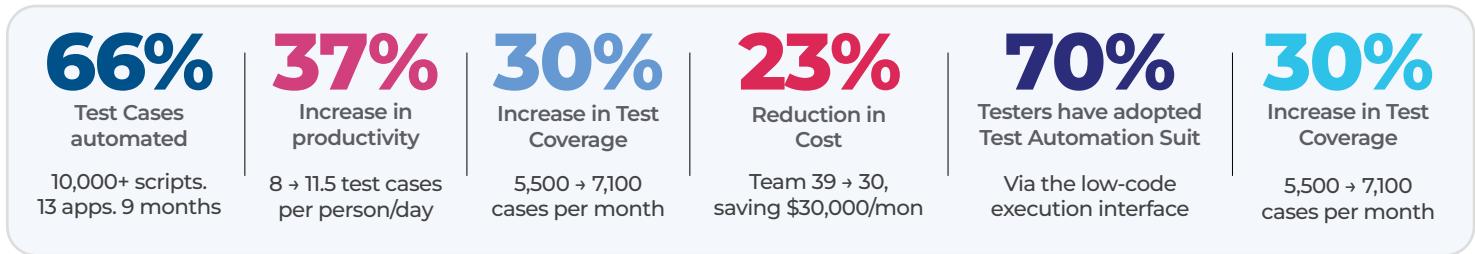
Parallel execution across large regression suites - significantly cutting test execution times and optimizing resource utilization

JIRA Integration & Traceability

13,000+ test cases consolidated into JIRA with menu-wise grouping, automated defect creation with screenshots, and full test-to-requirement traceability

Measurable Outcomes

The engagement delivered across every dimension - productivity, coverage, cost, and adoption



Maveric's Approach



BDD + Code-Driven Flexibility

Both Cucumber BDD and traditional code-driven automation were supported — teams chose the methodology that best suited their project, skill sets, and delivery model.



Page Object Model (POM) Architecture

POM architecture ensured clean separation of concerns, making scripts maintainable, reusable, and readable across a large distributed team over the 9-month engagement.



Execution Tracker

Backend scripts automatically captured key execution details and pushed data to JIRA via API. A parallel set of scripts generated interactive HTML reports with module-wise coverage and execution metrics - giving stakeholders full visibility.



Behaviour-Driven Development Integration

Custom XML configuration was developed to integrate with Nexus, ensuring the automation stack met the client's enterprise security requirements

Automation Coverage Across 13 Applications

Application	Domain	Test Cases Automated	Share
Finacle	Core Banking	4,600+	100%
API Layer	Interface	900+	20%
SMS	Notifications	730+	16%
TI+	Trade Finance	650+	14%
EB+	Corporate Banking	630+	14%
RIB	Retail Internet	480+	10%
Mobile	Mobile Banking	410+	9%
EPS	Payments	400+	9%
LOS	Loan Origination	350+	8%
Cortex	Cards	340+	7%
Payments	Funds Transfer	250+	5%
Mubasher	Capital Markets	180+	4%
Telemoney	Forex	170+	4%

Why Maveric?



Banking Domain Expertise

25+ years in banking engineering



Outcomes-Based Delivery

Measured against coverage and productivity KPIs



Enterprise QE Assets

Reusable frameworks and accelerators



Flexible Engagement Models

Assessment → Pilot → Scale

Ready to break your 33% automation ceiling?

Book Your Assessment
maveric-systems.com