CASE STUDY

Yethi helps a $430B bank ensure API stability at scale

THE CLIENT

A leading bank with over 90 million customers, processes nearly 80% of its transaction volume through digital channels, making API reliability mission-critical to business continuity and customer experience.

THE CHALLENGE

With frequent patches, upgrades, and core system changes, the bank faced a high risk of API instability and regression defects. The complexity was amplified by:

- 1,100+ APIs and 20 message queues requiring periodic validation
- A mix of encrypted and unencrypted APIs
- The need to cross-validate GUI and API behavior at scale
- Manual testing cycles that were time-consuming, error-prone, and not scalable

INDUSTRY

Banking and Financial Services

COMPANY & ASSET SIZE

Customer Base: ~90M
Employees: ~198,000
Branches: ~8,700
Total Assets: ~$430B

THE SOLUTION

The bank deployed Tenjin Workbench to implement a comprehensive API and GUI test automation strategy, transforming API testing from a manual, fragmented process into a continuous, intelligent quality layer embedded across the bank's digital ecosystem.

Key capabilities included:

- Secure **OAuth2-based** API access
- Parallel test execution across **multiple endpoints**
- **Automated discovery** of API structure changes
- Scheduled, remote execution with **hands-off ("lights-off") testing**
- **Automated reporting** and daily monitoring of API performance and availability

This approach enabled continuous validation without manual intervention.

RESULTS & IMPACT

Speed & Efficiency

- **>95% reduction** in time-to-test compared to manual execution
- **1,100+ API tests** executed daily in under 60 minutes

Scalability

- **Validated 1,086 APIs across** Middleware, Gateway, and SOA layers
- Automated execution time reduced from **32,580 minutes (manual) to 221 minutes**

Quality & Reliability

- Improved test coverage and defect detection
- Continuous monitoring ensured **early detection of performance and availability issues**
- **Significantly de-risked** core system migrations and upgrades

AUTOMATION AT SCALE

Type of APIs	API Count	Manual Testing Time (mins)	Automated Testing Time (mins)
Middleware APIs	615	18450	125
Gateway APIs	231	6930	47
SOA APIs	240	7200	49
SOA APIs	1086	32580	221

CONCLUSION

By adopting **Tenjin workbench,** the bank transformed API testing into a continuous, intelligent, and scalable quality assurance engine, enabling:

- Faster releases
- Lower operational risk
- Higher confidence in digital channels
- Always-on API reliability

The bank needed a solution that could ensure speed, security, and confidence across every release.

About Yethi

Leading Banks rely on the Yethi Consulting Assurance expertise for business success with their financial applications. Yethi Consulting Pvt Ltd, is the leading provider of Quality Assurance and Testing Automation solutions to the Global Banking and Financial services Industry for their applications reliability and business success. With over a decade of operations, Yethi Consulting brings deep domain and industry expertise along with an inbuilt library of **over 1 million Test cases for over 250 Financial Applications.**

Today, Yethi Consulting through a combination of products, services and solutions, has delivered **over 750+ projects for 130+ Customers, across 30+ countries.**

Yethi Consulting has been awarded with the IBS intelligence Leadership club in their Annual sales league Table 2023 as the 'Best in Quality Assurance and Testing platforms'.

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