Tenjin
TESTING WORKBENCH

Why Purpose-Built AI For QA is Critical for Financial Institutions



Financial institutions face an increasingly difficult balancing act of accelerating digital innovation while maintaining operational resilience and regulatory compliance. The rise of real-time payments, open banking ecosystems, Cloud-native platforms, and omnichannel customer experiences has significantly increased testing complexity. Yet many institutions continue to rely on fragmented toolchains, manual validation, and brittle automation frameworks that were never designed for today's banking environment.

Banks are increasingly looking at the speed and versatility of GenAI solutions like Claude & OpenAI to solve their testing challenges. However, these solutions currently only provide a partial solution that doesn't meet the rigor and complexity within the enterprise.

> "Purpose-Built AI For QA provides a practical path forward.



Tenjin Workbench enables banks to modernize quality engineering through AI-powered, codeless automation that combines test generation, execution, self-healing, and governance within a single enterprise platform. Implementing Tenjin enables banking institutions to achieve 10x faster test case generation, a 50% to 60% reduction in test design cycles, and a 30% increase in relevant test coverage, protecting the institution from devastating downtime and compliance failures.

Purpose-Built AI for QA Delivers What Standalone AI Cannot

- Unified Management Vs. Fragmented Tooling
- True Codeless Automation Vs. High-Maintenance Code Drafts
- Enterprise Context Awareness Vs. Generic Knowledge
- End-to-End Traceability, Governance and Compliance



The Challenge Facing Modern Banking

Modern banking initiatives including FedNow, RTP, digital onboarding, API ecosystems, and core modernization, depend on the ability to release software quickly and safely.

However, most institutions face common barriers:



Legacy core banking dependencies



Manual regression testing bottlenecks



Fragmented QA toolchains



Increasing compliance requirements



Rising automation maintenance costs



Limited SME availability



High costs associated with production failures

What Leaders Need to Know

Banks are no longer competing solely on products. They compete on their ability to deliver reliable digital experiences at speed.

Financial Impact of the Current State

The cost of maintaining traditional QA practices continues to rise.

Current Challenges	Business Impact
40 - 75% manual testing effort	Higher operational costs
Fragile automation scripts	Increased maintenance burden
Legacy application complexity	Slower releases
Compliance documentation overhead	Extended audit preparation
Limited regression coverage	Increased defect leakage
Production outages	Significant financial exposure

The cost of maintaining the status quo often exceeds the investment required to modernize quality engineering.

Why Generic AI Falls Short

Many organizations have experimented with standalone AI tools to improve testing productivity. While useful for generating drafts and snippets, these tools are not designed to operate within regulated banking environments.

Capability	Generic AI Tools	Tenjin Workbench
Generate test ideas	✓	✓
Execute tests	✗	✓
Support Web, Mobile, API and Mainframe	✗	✓
Self-healing capabilities	Complex	✓
End-to-end traceability	✗	✓
ALM integration	Limited	✓
Audit readiness	✗	✓
Enterprise security controls	Limited	✓

> Generic AI can generate suggestions. Purpose-built AI For QA delivers outcomes.



Why Tenjin Workbench?

Tenjin Workbench combines AI intelligence with enterprise-grade execution capabilities.

Key Capabilities:



Rather than adding another tool to an already fragmented ecosystem, Tenjin consolidates quality activities into a single platform.

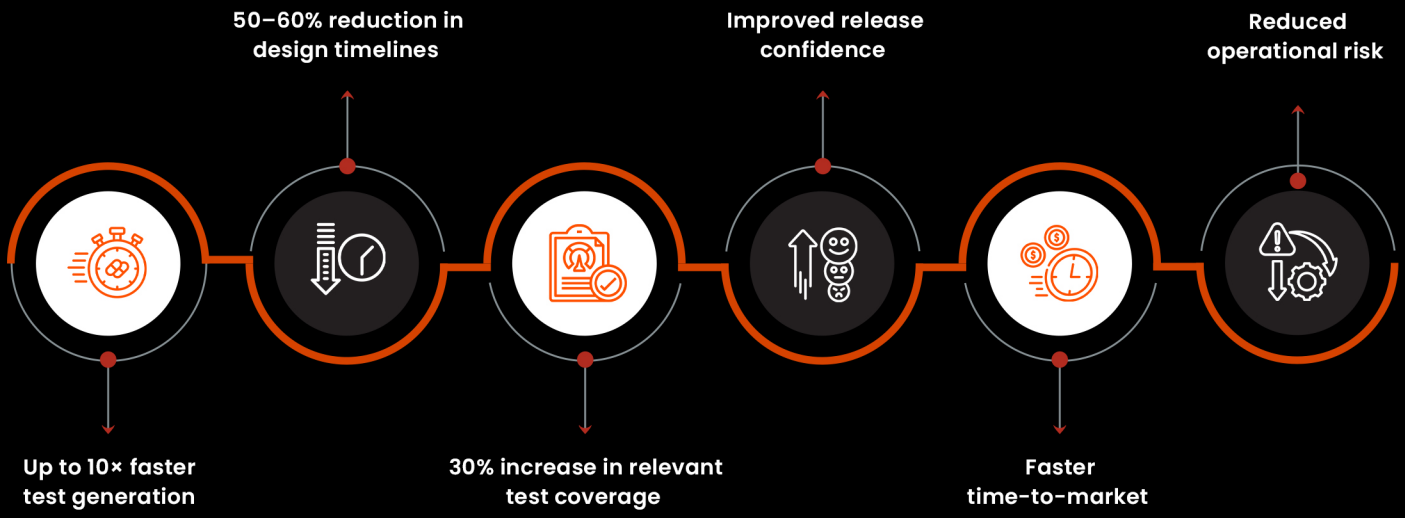
Adopting purpose-built AI For QA

Organizations adopting purpose-built AI For QA can expect measurable improvements across quality engineering functions.

Metric	Traditional Approach	Tenjin
Test generation	Weeks	Hours
Test design cycles	8 – 10 weeks	4 – 5 weeks
Regression coverage	Limited	Expanded
Maintenance effort	High	Reduced
SME involvement	Manual executions	Strategic oversight
Audit preparation	Weeks	Days

Measurable Business Outcomes for Banks

Implementing Tenjin Workbench delivers clear, measurable performance improvements for banking operations:



Tenjin's predictive modeling uncovers hidden edge cases, boundary errors, and integration friction points that human testers often miss. This expanded coverage ensures deep system validation without increasing manual testing workloads.

Real-World Strategic Benefits

- **Accelerated Time-to-Market:** Launch digital products—like updated mobile wallets or real-time payment features—weeks ahead of competition.
- **Reduced Downtime and Protection Against Outages:** Catch integration defects early in staging, preventing production outages that can cost millions per hour.
- **Lower Operational Overhead:** Free highly paid subject matter experts from tedious manual regression testing, allowing them to focus on core strategic business goals.

An Enterprise & Blueprint Framework

Moving an enterprise financial institution away from decades-old legacy testing frameworks requires a structured, deliberate deployment strategy. Tenjin uses a proven implementation model designed to deliver measurable value without disrupting ongoing operations.

PHASE 1

INSTANCE PROVISIONING

- Deploy dedicated private tenant instances with data-masking models
- Connect upstream product management tools (e.g., Jira Enterprise)
- Map core integration profiles across web, mobile, and API layers

PHASE 2

FRAMEWORK INGESTION

- Upload active documentation assets (BRDs, PDFs, Interface Guides)
- Generate and optimize initial core regression test models
- Run parallel validation tests to baseline self-healing accuracy

PHASE 3

PIPELINE AUTOPILOT

- Connect execution suites directly into main CI/CD deployment flows
- Shift manual teams to natural-language codeless test creation
- Deprecate legacy tool subscriptions and consolidate the QA stack



PHASE 1: Instance Provisioning & Tool Integration

- Secure Environment Setup: Deploy dedicated, secure cloud instances with local PII data-masking filters active.
- System Integration: Connect Tenjin to upstream requirement platforms (like Jira) and establish baseline testing environments across Web, Mobile, API, and Core Ledger layers.



PHASE 2: Documentation Ingestion & Baseline Generation

- Asset Upload: Ingest existing banking documentation, including BRDs, loan application flow charts, and interface guidelines, into Tenjin's secure repository.
- AI Training and Generation: Allow Tenjin's AI engine to generate initial test suites and run parallel validation tests to establish a baseline for its self-healing models.



PHASE 3: CI/CD Pipeline Autopilot & Scale

- Pipeline Integration: Embed Tenjin's automated test execution directly into the bank's active CI/CD deployment pipelines.
- Team Onboarding: Transition manual business testers and SMEs to natural-language codeless test creation, allowing the institution to retire redundant legacy testing tools.

Conclusion & Strategic Call to Action

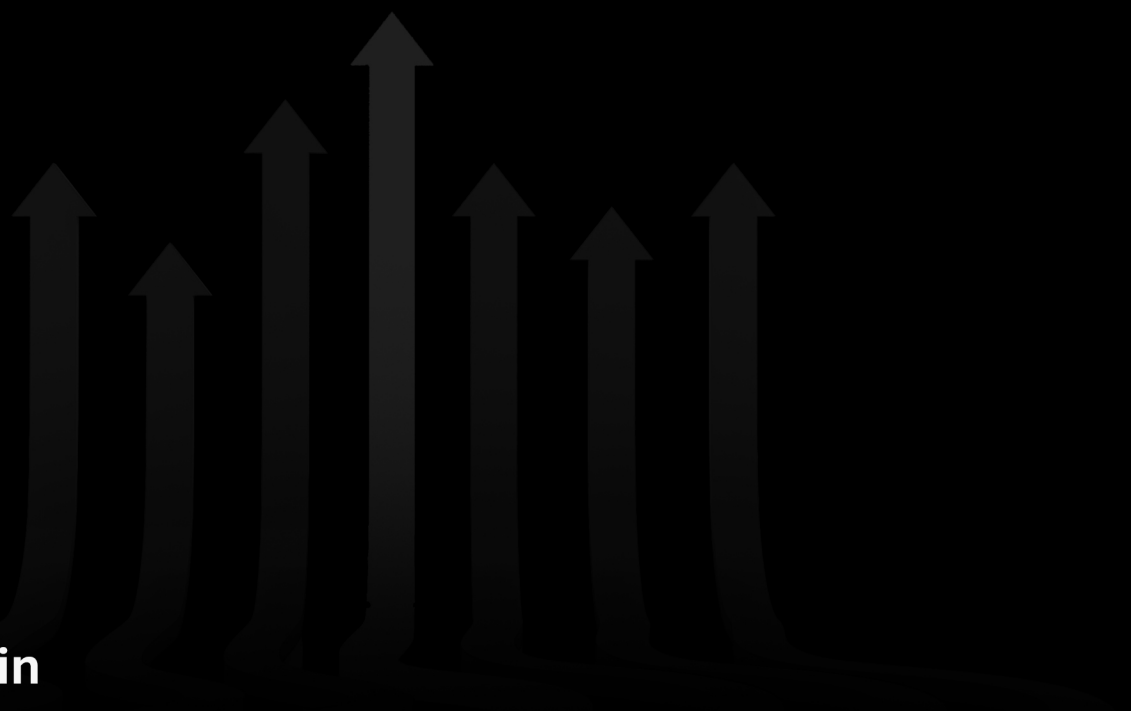
The traditional approach to software quality assurance in banking industry is no longer viable. Attempting to patch these gaps with standalone, consumer-grade AI tools introduces serious security, compliance, and execution risks.

As banks face the compounding pressures of core systems modernization, rising operational downtime costs and intensifying regulatory scrutiny, adopting a purpose-built AI for QA platform is a critical strategic requirement.

Tenjin Workbench solves these challenges by combining AI-driven test design, multi-platform codeless execution, and automated self-healing into a secure, enterprise-grade platform. Standardizing on Tenjin allows financial institutions to eliminate manual testing bottlenecks, achieve 10x faster test generation, reduce design cycles by 50% to 60%, and expand relevant coverage by 30%.

Modernizing banking infrastructure requires an equally modern approach to quality engineering. Protect your institution from operational failures, streamline your regulatory compliance audits, and accelerate your digital delivery timelines by deploying Tenjin Workbench.

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About Tenjin

Tenjin is a codeless test automation platform, a plug-and-play banking aware solution, with distinctive features like robotic capabilities to learn the application and re-learn after any updates, so regardless the complexity and number of updates, the test execution remains high-speed, minimizing manual effort.

To know more about how we can help you mitigate business risks associated with technology enabled operations, reach out to us at **hello@tenjinonline.com**

Disclaimer

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