



Establishing AI-ready QA Roadmap with CoE using AFTA for US Edu-Tech Giant





Key Challenges

- Fragmented, inconsistent QA landscape
- Heavy manual regression effort
- High test maintenance costs
- Low release confidence levels

Key Solutions

- Strategic QA consulting roadmap
- Unified AFTA automation framework
- Centralized QA Center of Excellence
- AI-ready intelligent test automation suite

About The Client

The customer is a prominent USA based provider of post-secondary education, operating at the intersection of technology and learning. With a global student body of over 90,000, their mission is to provide high-quality healthcare and professional training that meets the evolving demands of the job market. As a leading player in the EduTech industry, with more than 10,000 employees and a revenue of \$1.8 billion, innovation and scalability are critical factors for them to serve a diverse and growing population of learners and employers.

Client's Need

For the client, the QA processes had evolved reactively over time. Each team operated within its own framework, using different tools, scripts, and validation methods. This created:

- **No unified automation vision:** testing remained localized, lacking enterprise-level governance.
- **Heavy manual validation:** Manual validation was needed for content-rich applications hosted in Azure.
- **High regression Impact:** Resulted in high maintenance effort and escalating costs.
- **Slow-release:** The release velocity was not optimum, causing delay in the time-to-market speed.
- **Limited release confidence:** With lack of confidence in the release, the client's business was vulnerable to customer experience risks.



Business Challenge

The organization knew it needed more than just another automation framework. It needed a consulting partner who could see the full picture, who could connect QA strategy with business outcomes and build a foundation for intelligent, scalable, and future-ready testing.

When Aspire Systems came on board, we began not by coding, but by listening. Our first goal was to deeply understand the customer's testing landscape: its dependencies, challenges, and aspirations behind every product line.

Through a strategic consulting intervention, we collaborated with the client's QA and IT leadership to:

- Define a long-term automation vision aligned to scalability, reuse, and business priorities.
- Establish a roadmap for standardization across multiple Azure-hosted applications.
- Identify opportunities for early AI adoption, from predictive defect analytics to intelligent test case generation.

This wasn't about implementing a tool; it was about designing a Quality Engineering blueprint that could sustain innovation.





Solution

1.0 Implementing AFTA (The Unified Automation Framework)

From this strategy emerged **AFTA (Aspire Framework for Test Automation)**, a modular, product-agnostic automation framework designed to unify fragmented QA environments under one standard.

Working alongside the customer's engineering teams, Aspire:

- Rationalized existing frameworks and integrated reusable libraries.
- Co-created common automation components with other vendor partners.
- Validated scalability and feasibility through a pilot smoke test on eDapt, one of the customer's key learning platforms.

The results were immediate. Within weeks, the first regression packs were automated, reducing manual cycles and stabilizing release quality. The framework proved itself not just as a technical asset, but as a foundation for enterprise-wide QA governance.

1.1 Scaling the Transformation: Establishing a Test Automation CoE

Once AFTA demonstrated value, the next step was to embed it at scale through a centralized Test Automation Center of Excellence (CoE).

The CoE was designed to blend strategic governance with tactical enablement:

- **Strategic:** Standardized automation processes, common metrics, and governance models across products.



- **Tactical:** Rapid onboarding of new teams through reusable assets, dedicated Git repositories, and Azure DevOps CI/CD pipelines.
- **Future-Ready:** Continuous upgrades to AFTA with new WebDriver, Java, and plugin versions, ensuring the framework evolves with technology.

Over time, automation grew beyond UI and regression. The CoE enabled Accessibility, API, Security, and Integration testing, driving end-to-end quality coverage.

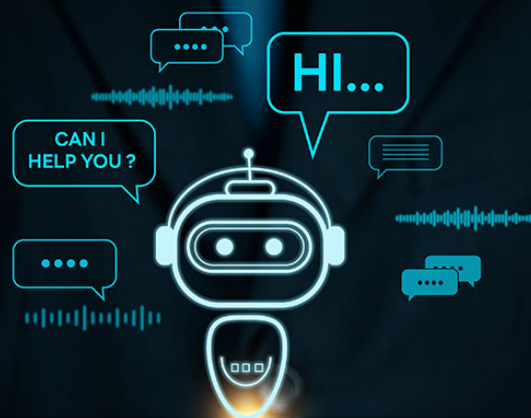
1.2 A Glimpse into the Future: AI in Action

As the QA CoE matured, the customer began preparing for the next leap: AI-driven intelligent automation.

The foundation laid by AFTA naturally extended into AFTA 5.0, an AI-enabled evolution designed to deliver:

- **Predictive analytics** to identify high-risk areas before failures occur.
- **Self-healing test scripts** to reduce maintenance overhead.
- **Autonomous test case selection** for smarter regression cycles.

With this transition, QA is no longer about catching defects, it's about preventing them before they surface.





Key Results

1.0 Before and After Comparison

Below table will help you to understand Intelligent Quality Engineering better with before and after comparison of its application in the client's ecosystem

BEFORE	AFTER
■ Multiple legacy frameworks, ■ No standardization	One unified automation framework (AFTA) adopted enterprise-wide
Manual-heavy regression cycles	Automated regression via Azure pipelines, resulting in time cut from days to hours
Unpredictable release quality	Stable, predictable releases with continuous regression validation
Limited automation coverage	E2E automation live for both eDapt and DXP
Automation as a project deliverable	Automation as a strategic capability, shaping the future of AI-led testing

1.1 Quantified Value

- **400+ test cases automated** across eDapt and DXP platforms.
- **40–50% effort reduction** for onboarding new products via framework reuse.
- **Significant regression cycle reduction**, boosting release velocity.
- **Enhanced confidence** in every release, backed by centralized governance and CI/CD integration.



Looking Ahead

With AFTA as the backbone of enterprise automation, the customer is now positioned to move from execution to intelligence, where every test contributes to learning, prediction, and prevention.

Aspire continues to partner closely, driving their transition toward AI-led Quality Engineering at scale, enabling them to release faster, innovate confidently, and maintain the educational excellence their students depend on.



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