FINTECH · PAYMENTS · UNITED STATES

Reliable payment acquiring and financial reporting for a coffee-equipment network

CLIENT Under NDA — coffee-equipment network (USA)	INDUSTRY Fintech · payment acquiring & financial reporting
TALVEX ROLE Greenfield build from scratch, full cycle	TIMELINE 2024 · launched in 4 months, ongoing support

🔒 **Project under NDA.** Client name, screenshots, and internal details are withheld; the description is generalized and specific metrics, infrastructure, and payment provider are omitted.

THE CHALLENGE

A US coffee-equipment network processed payments through an outdated system that had become a bottleneck for the business: the system **froze**, the payment gateway failed regularly, and discrepancies had to be reconciled by hand — down to repeated trips to the bank. Online reporting was weak, and the business had no clear, reliable, real-time picture of its money.

Reliable acquiring — no freezes or gateway failures

Security — fault-tolerant payment pipeline

Full reporting — transparent, real-time finances

THE SOLUTION

Talvex began with an **audit of the existing system**. The conclusion was clear: it was technically obsolete, and patching it would be costlier and riskier than rebuilding — so the platform was designed and implemented from scratch.

The focus was reliability and ease of operation: resilient payment acceptance with proper failure handling instead of freezes, a clean payment-gateway integration, and transparent real-time reporting that ended manual reconciliation and trips to the bank. A distinct priority was **maintainability** — clean architecture designed for evolving fintech requirements, not just a one-off launch.

TECHNOLOGY STACK

BACKEND ASP.NET Core · C#	FRONTEND React · TypeScript

KEY ELEMENTS

- Payment gateway / acquiring integration
- Real-time financial reporting
- Payment-pipeline security
- Fault tolerance

THE OUTCOME

- The payment pipeline is no longer a bottleneck — resilient acceptance instead of freezes and constant gateway failures.
- Manual reconciliation and trips to the bank are gone: financial reporting is available online and in real time.
- Security and fault tolerance are built into the payment architecture — ready for evolving fintech requirements without a rewrite.
- Launched in 4 months; now in stable production, with Talvex providing minimal ongoing support and consulting.