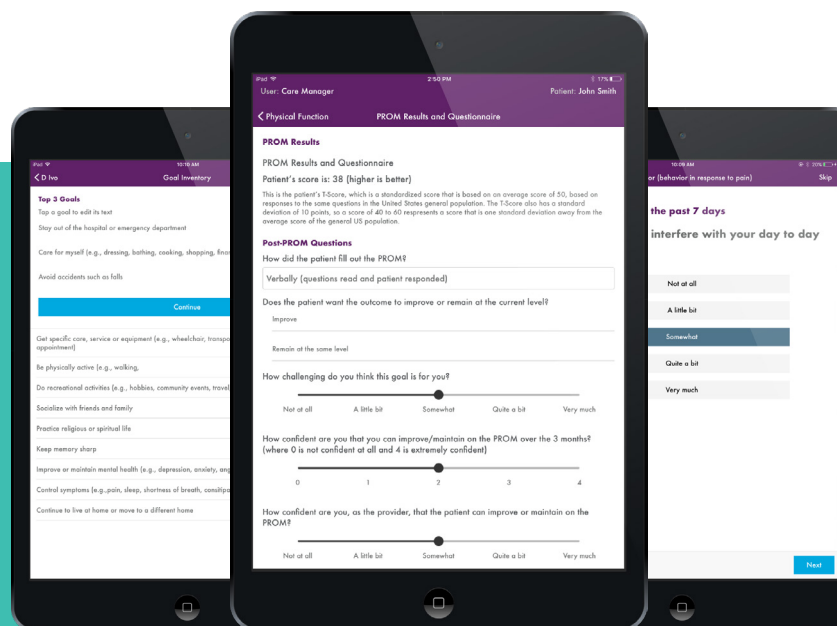# NCQA: Modernizing for Trusted Health Data

The National Committee for Quality Assurance (NCQA) needed to scale its Person Driven Outcomes initiative from a paper-based survey to a secure, scalable digital platform. The challenge was to build an enterprise-grade system that could automate manual workflows, handle complex data with speed and accuracy, and meet stringent HIPAA compliance requirements. The new platform required a robust architecture to support data ingestion from diverse sources, provide real-time analytics, and function reliably in clinical settings.

A Platform for Interoperability

We engineered a modern, interoperable platform designed for the complexities of health data. By creating a unified ingestion pipeline and aligning the architecture with standards like HL7/FHIR, we built a system that simplifies maintenance and is prepared for future integrations. This approach provides a reliable, secure, and scalable foundation that ensures consistent data handling and processing, reducing the operational toil associated with managing disparate data sources.

Integrating Innovation and Compliance

The platform's architecture embeds governance directly into the system, turning compliance into an accelerator. Granular role-based access control (RBAC) ensures users only access necessary information, while comprehensive audit trails provide complete visibility for security reviews and regulatory checks. All patient data is protected with HIPAA-aligned security protocols, providing NCQA with the confidence to scale its initiative securely.

Results Through Reliable Architecture

The new platform provides NCQA with cleaner data, faster reporting, and trusted insights. By automating data validation and processing, the system significantly reduced operational toil for the NCQA team and its partners. The stable, secure, and scalable architecture established a foundation for predictable delivery, enabling NCQA to focus on expanding the program's impact, not on managing technical infrastructure.

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WHAT WE DELIVERED

Unified Data Ingestion Pipeline:
Architected a centralized system to process information from multiple sources, ensuring consistency and reliability.

Automated Validation Engine:
Engineered automated checks to ensure data integrity upon ingestion, reducing manual overhead and errors.

Secure RBAC & Audit Trails:
Implemented role-based access controls and comprehensive, on-demand audit logs to meet strict security and compliance needs.

iPad App, API & Web Portal:
Developed an integrated platform including a clinician-facing iPad application, a robust API, and an administrative web portal for reporting.

Offline Synchronization:
Built offline capabilities into the iPad app, allowing practitioners to work without an active internet connection and sync data securely when back online.

Cloud-Native Architecture:
Designed and built the platform on a modern, cloud-native foundation to ensure scalability, reliability, and performance.

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