

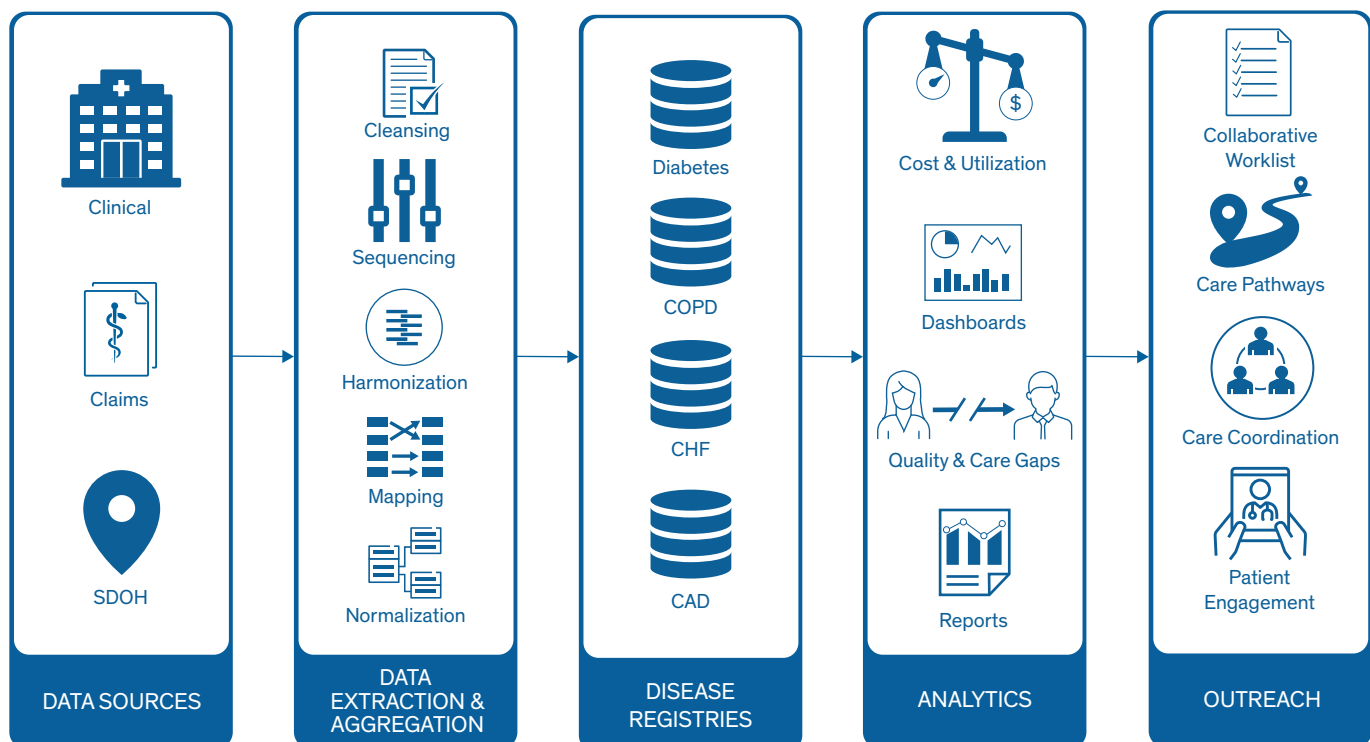
Population Health Management & Care Coordination Custom Solution Engineering

Project Charter

Population health management and care coordination point-of-care workflow optimization capabilities through point-of-care-integrated patient identity management, cohort stratification, event notifications, and clinical dashboards.

Use Cases Fulfilled

Aggregation and normalization of the data from multiple clinical systems. Integration to the point of care for chronic condition gaps, member risks, and screenings. Intervention worklist to facilitate care coordination.



Custom Solution Details



Technologies and languages leveraged

AngularJS, Java, groovy, MongoDB, SQL, FHIR, C#, SAML, Elasticsearch, Redis, Apache Kafka, Spring Boot, Spring Batch, Spring Cloud Data Flow, & MySQL.



Functionality

- Delivered providers and clinics a central location for quality screening and attestation.
- Java project exposed APIs, making calls to APIs for FHIR resources like patient, coverage, and practitioner.
- Aggregated payer data to enable new marketplace for telehealth and patient access use cases.
- Self-serve data filtering, dashboards of population count for patient problems that are active or resolved.



Data Sets

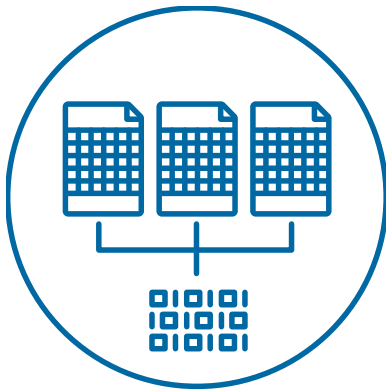
- Problems
- Insurance coverage
- Demographics
- Providers & Groups
- Risk Gaps
- Quality Gaps

Custom Solution Details



Data Sources

- MongoDB
- Unity/JSON
- Zip files containing pipe-delimited text files
- Third party healthcare analytics platform for Chronic Conditions and risk related data
- Third party system for value-based care providing quality measure information
- Client's proprietary data lake with organization, demographic, and coverage information.



Data Transformation

- De-duplicating patient, provider, location, and provider group information
- Mapping Data fields from various CDO's to the desired target mapping (E.g. MRN is unique ID for one CDO, EMR GUID might be the unique identifier for another CDO)
- Aggregation of data from several sources requiring distinct matching algorithms per organization to provide a single cohesive patient record.



User Interface Components

- Gap dashboard
 - Screenings, chronic conditions, quality measures
- Members dashboard
- Member search
- Member record
 - iFrame of external tool
 - Active gaps for member
 - History of user activity
 - Save and continue/save and submit



User Interface Components (continued)

- Print page capability
- Export to csv capability for dashboard results
- Document management integration for filing evidence for patient problems
- Virus scan for document upload
- Type-ahead search
- Predictive search
- Deep linking of patient records (link from anywhere in application to patient's record in application)
- User preferences storage and configuration
- Individual CDO's configuration options and user provisioning in an admin application



Data Security & authentication

OAuth, Fortify security scans (OWASP, CWE/SANS, etc), java keystores (jks), internal user registration, POST requests for sensitive data

Your vision, our solution engineering

Galen's solution engineering team provides custom development services to assist organizations in the augmentation, extension, and seamless integration of their applications.

From full-service custom solution development, to strengthening your existing operations and teams, Galen has the resources to deliver modern, high quality solutions to meet your business needs.

Contact us at sales@galenhealthcare.com to get started.