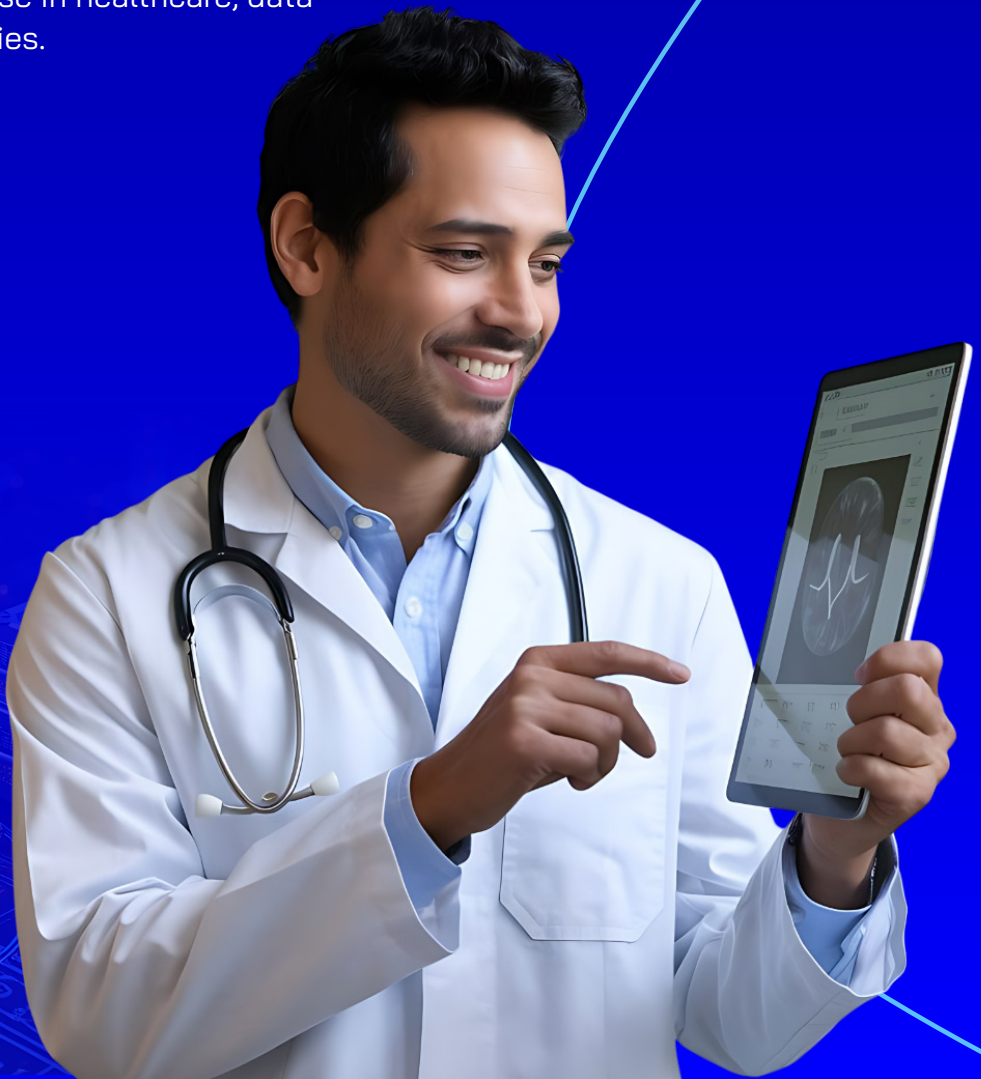
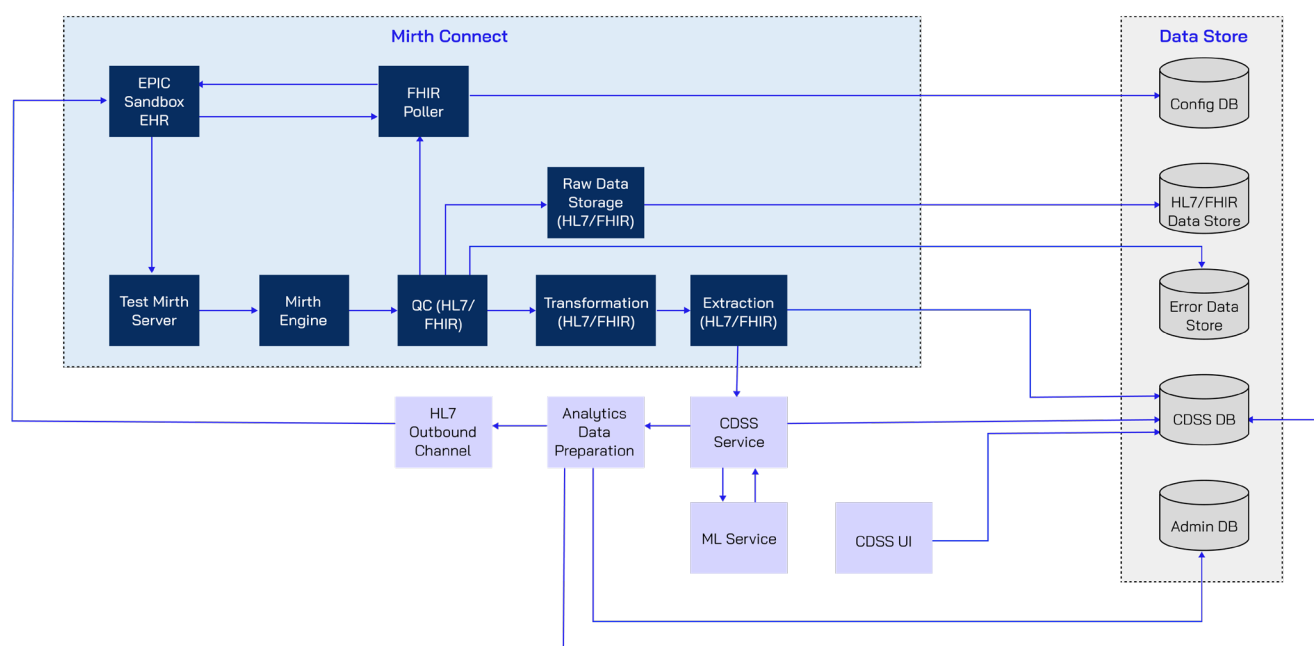


Scalable data infrastructure for model operationalization of CDSS

Business Challenge

- Client is a leading Diagnostics and Life Sciences company dedicated to advancing and optimizing the laboratory & diagnostic medical devices and services.
- The client wanted to build a cloud hosted real-time scalable data infrastructure to build a portfolio of clinical decision support (CDS).
- CitiusTech got selected as the preferred vendor to develop the platform given its expertise in healthcare, data science and cloud technologies.





**CITIUSTECH
SOLUTIONS**

- CitiusTech contributed to architecture, design and development of platform components for the CDS system using Azure DevOps, Azure ML services, etc.
- Leveraged Mirth Connect as Integration tool for HL7 & FHIR communication and deployed Mirth channels for key workflows (Data ingestion, QC and Error handling Support).
- Enabled Epic EHR sandbox integration for CDS application using FHIR APIs, development of SMART on FHIR app with responsive web UI, DevOps and technical documentation.
- Standalone CDSS web application with analytics services for patient dashboard, snapshot, labs & trends.
- Created deployment pipeline for AI models for different CDS use cases.

VALUE DELIVERED



Enabled automated deployment of AI models for various CDS applications



Accelerated application development by ~20% through reusable services



Provided efficient, scalable common digital foundation for all CDS applications



Delivered a system which can be extended easily to handle high data volumes and analytics/reporting needs in future



Shaping Healthcare Possibilities

CitiusTech is a global technology services, consulting, and business solutions enterprise 100% focused on the healthcare and life sciences industry. We enable 140+ enterprises to build a human-first ecosystem that is efficient, effective, and equitable. Leveraging deep domain expertise and next-generation technologies including AI, Cloud, Data, and Intelligent Automation, we assist our clients in realizing their vision, accelerate transformation, and achieve business outcomes.

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