delaPlex
we solve problems

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Healthcare analytics platform

Research, Reporting, and Quality Metrics

About the client

Epividian advances the mission of medicine by developing technologies and empowering clinical practice, clinical research, academic, public health and regulatory efforts. They are healthcare data and technology experts with tailored solutions in:

Clinical Practice & Research | Population & Disease Management | MIPS & Ryan White Reporting
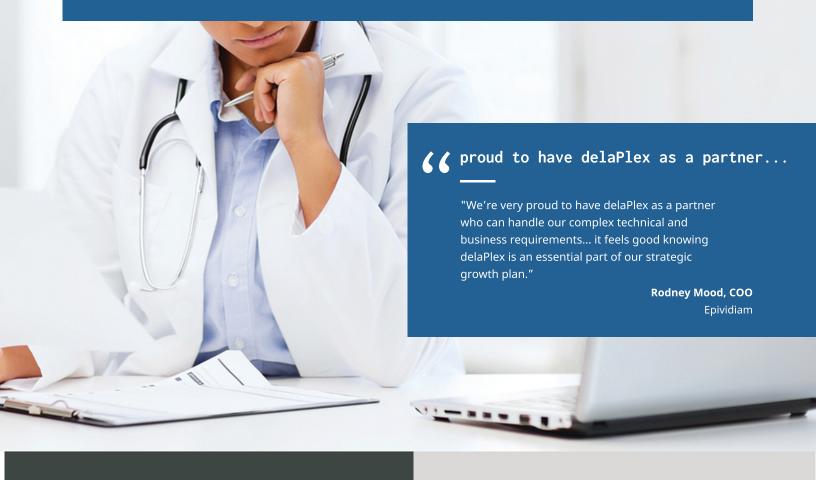
Client need

Our client needed to create a HIPAA compliant, streamlined application for collecting, scrubbing and analyzing clinical data from over 400 hospitals and clinic sites in more than 51 U.S. cities. A secure, requirements-driven reporting portal was needed to provide meaningful and actionable insights.

Product challenges

The biggest challenge in creating this application was converting multiple manual processes using various EHR (Electronic Health Record) systems into one cohesive, user-friendly analysis and reporting tool, while maintaining HIPAA compliance.

The delaPlex solution

We created a world-class enterprise solution with two distinct portals, OPERA® and CHORUS™. The dynamic solution automatically collects data from various sites, encrypts it, then transfers it to a secure, HIPAA compliant data center for analysis. We applied an ETL process to standardize the extracted data format, while not compromising its integrity. The applications design required us to accommodate many different ETL packages during the load process and use a two factor authentication (TFA) security process.

How we did it

Our HIPAA compliant team conducted an in-depth requirements analysis to design a customized solution for Epividian. We used an agile and process-driven methodology using the following technology to create a multi-prong data delivery and reporting application.

— **IDE**
Microsoft Visual Studio 2012/2017 Premium Edition

— **Server-Side Technology**
Microsoft ASP.NET MVC-4 with RAZOR, C#

— **Data Access**
Entity Framework 6.0, LINQ

— **Web Technologies**
Asp.net, Java Script, J-query, AJAX, JSON, XML, JQ GRID

— **Additional Technology Tools**
SharePoint 2013, SSIS, SSRS, PowerShell, MVC, Xamarin

Core stack

delaPlex is a global software development and business solutions provider helping companies drive growth, revenue and marketplace value. Our innovative business methodology has built an unmatched reputation of bringing an alliance of collaborative industry experts, across industries and skillsets, to clients anywhere around the world.

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