



Big Data Analytics for Healthcare Solutions



Overview

A leading provider of Therapy and Rehab Management Services for the healthcare industry was developing a data analytics solution for its clients. It was looking for an experienced partner to handle the data analytics that is essential to the development of this solution. XTGlobal provided the client with expert resources in analytics, data warehousing, BI and web application development to handle the various requirements of the project.

About the Client

The client is a provider of Therapy and Rehab Management Services for over 250 specialized clinical programs, skilled nursing facilities, hospitals, Continuing Care Retirement Communities (CCRCs), and outpatient rehab clinics. They also specialize in audit and consulting services, Physician Therapy Partnerships, and In-House Management Contracts for healthcare providers in 18 US states.

Requirements of the Project

The client develops innovative services and software solutions that have ease of use and functionalities across the spectrum of therapy services, VBR reports, billing, and third-party integration. The solutions were meant to provide real-time analysis and predictive modeling for their customers. In order to create these innovative solutions, the client needed knowledge experts with experience in implementing large Data Analytics projects. They were also looking for multiple development teams that can work across different time zones to handle their software modernization development program.

XTGlobal's Approach

After a full analysis of the client's business needs and complexity of their short-term and long-term requirements, XTGlobal provided the client with an MS SQL expert who was experienced in ERP and Analytics. The expert could design and implement SQL Data Warehouses and leverage Power BI for a visual representation for some of the numbers.

XTGlobal designed an Angular web application that leverages a .NET Core RESTful API. With a Data Warehouse (DW) schema that is based on suggestions, best practices, and experience, XTGlobal came up with the following recommendations that the DW should capture:

- Measurements from the patient (rating their abilities/dependence and goals).
- Activities/charge codes/interventions that were given to the patient and for what duration.
- Other data that exists in the database would relate to charges/billing.

Results

XTGlobal developed a Real-Time Big Data Analytics solution to enable the client and their customers gain better visibility into treatments, real-time care, scheduling, and cost projections. XTGlobal delivered the solution within the timelines and the budget helping to reduce cost by using an offshore team along with onshore resources for a quicker implementation.

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