

Client Issue

Our client, a rapidly expanding IT firm, had seen unprecedented growth, and as a result of this expansion, they were getting massive volumes of data from each of its providers and partners. This information supplied patient and provider detail, which aids the client in a variety of options and directions. Due to the large volumes of unstructured data arriving from various sources, the client was required to begin a Data Management Architecture project in order to get value from the data. They had to develop a plan, construct a data warehouse, convert all of the data to structured data, and prepare the data for the visualization teams. They were using Excel and CSV files instead of a cloud environment, and all data was kept in SQL Server.

Our Solution

We initiated the project by working with the customer to establish scope and grasp all of the client team's peculiarities. We started evaluating and examining issues to see where the difficulties were. The plan was agreed upon with the customer, and development began by developing stories for the early sprints. Data conversion commenced when the data warehouse was constructed. Some of the data was formatted; however, the majority of the data was unstructured, and complete records existed inside a single field, necessitating extraction and cleaning. We were able to extract the data and prepare the task using Hadoop and Scoop. After establishing the architecture and mapping, data began to flow to the data scientists.

The EDI team split the data into fields after processing it and integrating it to the architecture. A long-standing methodology was established to transform tens of thousands of reports. After three months, approximately 2000 reports had been added to the data warehouse, exceeding the initial five-month estimate. Part of the project involved resolving deadlocks generated by 10 teams working together at the same time. Management has been given clear visibility and communication, and the project is still ongoing.

Key Benefits

This project had numerous moving pieces, beginning with strategy development and execution and ending with procedures, data flows, and so on that needed to be collected, organized, harmonized, and utilized to the business's advantage. All of this was done while upholding the greatest levels of data security, which is critical in the business and to our customer. We have maintained great communication and visibility to management throughout the project while exceeding timetables and saving money.

- Data is now centralized.
- The .Net team was able to begin extraction and visualization work ahead of time.
- PowerBI was used by the visualization team.
- The project is on schedule.
- Full access to the firm has been granted.
- The plan has been declared successful based on the achievement of the milestones.