Collabera®

Restructuring data systems in education

A leading American technology company that provides data integration and ETL services to the education sector was looking for an IT partner to help them solve a complex integration challenge.

ADDRESSING THE MANDATE

As a provider of data services to many American school districts, the client was faced with the challenge of developing a bi-directional data integration system using Microsoft DataSense, between several administrative databases. Details of the project included,

- Integrating the client's Student Information System (SIS) with their Learning Management System (LMS) in a bidirectional manner

- Reducing the manual effort involved in syncing data between multiple systems and databases

- Establishing 100% data accuracy within all systems

- Handling and monitoring of overnight runs, alongside the execution of various support activities

THE RESULTS

100% Data Integrity and Digitization

- 100% data digitization for each of the affiliated school districts

- Bulk data cleansing and conversion capabilities were implemented, alongside error sensors and log tracking to enable monitoring and reduced troubleshooting

Systems Optimization & Scaling

- The client experienced a 90% reduction in manual data syncing effort

- Data processing cycles were shortened from weeks to days

- Developed on-demand capacity which rapidly scaled up to meet seasonal demand

THE CHALLENGES INVOLVED

01 Legacy Systems & Paper-Based Filing

The majority of the school districts were using manual processes and paper documentation to track and store data. This necessitated a complete digitization of the databases before integration could commence.

THE APPROACH & THE SOLUTION

Using DataSense, the Collabera team build a series of data integration templates which enabled quick deployment of the solution. Key tasks executed in the course of this engagement included,

- Data extraction from multiple source systems

- The addition of multiple layers of data cleansing, deduplication and data filtration

- The implementation of Azure Logic Apps to rapidly create and customize workflows and to enable easier data management

- Input data transformation from source to destination system formats

- Accommodation of multiple data intake formats to shorten data processing and integration cycles

Founded in 1991, Collabera is a leading global professional services company that helps enterprises transform their technology, processes and operational models. We empower our customers by overcoming bottlenecks and silos, and building connected business systems that scale in real time.

For more information, visit: itservices.collabera.com

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