ETL Automation Cuts Regression Cycle by 80 Percent for Financial Leader

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ProKarma solution encompasses mainframe, Unix, Web and database storage with 200 extremely complex test cases, reducing 16-day regression cycles to three.

BACKGROUND

One of the world's largest credit card issuers provides business-building expertise to a worldwide merchant base. With millions of daily transactions processed, totaling more than $1 trillion in spending each year, this e-commerce leader must serve customers 24/7 while maintaining its market-leading status across the entire payments chain. Unprecedented competition in the financial services market means that the organization must take new steps to accelerate revenue growth. The ability to derive rich data from macro payment trends is also enabling new commerce opportunities and represents a significant opportunity for growth in the years ahead.

PROBLEM

The financial services industry is fundamentally changing. As customers embrace online and mobile payment options, paying with cash is quickly becoming a thing of the past. This shift brings with it the ability to seamlessly capture, analyze and gain insights from transactions –insights that fuel the creation of new products and services for customers and partners.

Extracting that data, and transforming it into a structure from which it can be queried and analyzed, however, can be both time consuming and costly. On average, companies lose an estimated $14.2 million annually are taking new steps to accelerate revenue growth. The ability to derive rich data from macro payment trends is also enabling new commerce opportunities and represents a significant opportunity for growth in the years ahead.

Testing of these processes – known as extract, transform, load (ETL) processes – can help ensure the quality of data and reducing bugs, but it is often done manually. This is not only labor-intensive when working with cross-functional and multi-location teams, but it can also lead to errors. Manually validating a single test scenario can take more than 90 minutes, and multiple combinations of test conditions can further complicate this process.

In order for this financial leader to optimize its digital capabilities and create a scalable ETL model, it turned to ProKarma to improve its ETL testing process.

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SOLUTION

ProKarma's cost-effective, user-centric and agile testing practice partnered with the organization to implement ETL automation, dramatically reducing the time and cost associated with ETL testing.

The automation, which included mainframe, Unix, Web and DB integration, reduced ETL testing efforts by 78 percent. The integration covered 200 extremely complex test cases; for 88 of the most complex, ProKarma was able to build a single, unified framework that relies on reusable functions rather than hard-coded validations. The solution encompassed nearly 3,000 total commented lines of code and 2,350 reusable-functions lines of code. Overall, the automation solution provided end-to-end validation of scenarios, including three portals (SFT, Web and Jasper), two Unix servers (E2 Unix, TIMS), and two mainframe environmental validations. A process that used to take 90 minutes per test case was reduced to 20 minutes, reducing the regression cycle from 16 days to fewer than three days.

ProKarma's team was able to improve data quality while reducing the time and manpower spent extracting, transforming and loading it, increasing the client's overall competitive advantage in the financial marketplace.

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ProKarma delivers integrated technology and business process outsourcing solutions for over 150 global leaders in a wide range of industries and markets. ProKarma is co-headquartered in Portland, Oregon and Omaha, Nebraska, with sales and delivery centers in the United States, India, Argentina and Peru. ProKarma was selected as a Global Services 100 Provider for 2012, 2013 and ranked as the fastest growing IT services company in America by Inc. 500.