



## CASE STUDY

# MASTER DATA MANAGEMENT SOLUTION FOR A GLOBAL FINANCIAL FIRM

Improved user experience and increased performance by 300%

## Client Background

Our client is a large global bank that relied on a licensed master data management (MDM) product customized for their backend data management needs. However, the performance of the product fell short of the bank's expectations, requiring significant data processing time. And the user experience was cumbersome and frustrating. Those performance issues and a frustrating user experience caused lost time and decreased productivity for the bank.

## Xoriant Solution | Key Contributions

Xoriant engaged with the client to help improve performance and usability issues while maintaining the bank's investment in the product, making no changes to the backend MDM features. Our key contributions included:

- Redesigned the user interface in Ext JS, reducing the number of screens in each module from more than 10 to 3 with additional functionality through popups and views. By optimizing the screens, we reduced the time and effort required to work with a module, and increased productivity through parallel processing.
- Designed features as common components, making them usable on a single screen, reusing the code reduced the maintenance of screens. Implemented provision for users to see all the details of a request, from submission to approval, via a single page view in addition to drill down views for detailed information
- Leveraged the flexibility and sharding capabilities of MongoDB to organize dynamic data in a structured manner and make it an ideal solution for backend data management. The query response time in

## KEY BENEFITS

- Enhanced user interface enabled an increased functionality reducing maintenance and screen management by 73%
- Reduced the validated data upload time by 300%
- Enabled the client to maintain the investment made in the MDM product with a seamless integration of new and improved application

MongoDB proved significantly better than the traditional RDBMS that the licensed MDM product had used.

- Redesigned the data upload process such that it is now an asynchronous process performed in the background, so the user can perform other tasks in the application while the upload is in progress.
- Developed the multithreaded code using the Akka framework for backend jobs – enabling work to be executed in parallel and speeding up the upload process.
- Integrated the new application with the client's existing business process management (BPM) system using Java messaging. The new application sends workflow request messages in XML containing workflow attributes and message payload.
- Integrated the new application to handle all levels of approval and rejection.



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