FULCRUM Logic

Rapid Implementer of Technologies

ROI

Java based Purchase Planning System creates enhanced forecasting and reporting capabilities for Manufacturing Industry Giant

Introduction

In changing economic conditions, organizations need to build scalable solutions. Fulcrum Logic's business consulting and flexible development approach enables the client to evolve their business process. Embarking on this approach, organizations can realize quick wins, which is important in any economic climate.

The client is one of the largest manufacturers of printers and digital multifunctional products. The client has a group of 25 sales companies worldwide and continuously expanding business globally.

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Technology Used

App Server 10g, Java/J2EE, Struts, Web - Technologies' JDeveloper v 10, Crystal Reports XI, Oracle 9i / 10g, Crystal Reports Server XI, worldwide and continuously expanding business globally.

Business Needs

The Client had a manual system/process of extracting data from AS/400 and Excel Sheets for raising the Purchase Forecast. The client was using the old accounting structure that needed to be revamped as soon as possible. They needed a system to automate their Purchase Planning, Forecasting and Purchase Order creation process

The new system needed to have a comprehensive forecasting capability for machines, accessories, parts and supplies on a monthly basis. Management and maintenance of the distribution across their warehouses was another area where they needed to optimize their inventory levels. Business rules and system configuration parameters needed to be streamlined so that administration was easier. They needed a revamped system and user interface for their sales forecast which would integrate with their existing Oracle ERP and help create reports on a periodic basis. This functionality was restricted by the fact that their current system allowed forecasting for a period of only six months.

They needed an automated Purchase order generation system which would create accurate reporting, timely forecasts and an increased performance level.
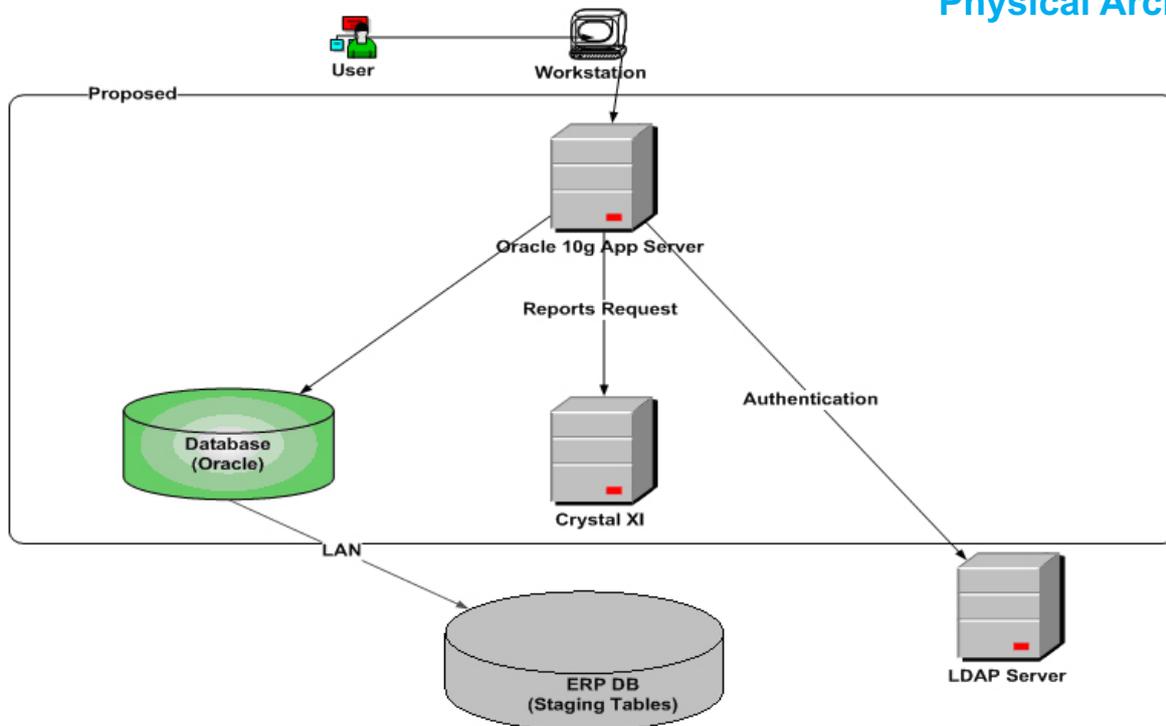
Solution

Fulcrum conducted a structured analysis of the client business processes, organization structure and product information to create a detailed Business Case Modeling approach for this project.

Through the effective use of our onsite-offshore delivery model, Fulcrum Logic fulfilled the client's urgent need of the hour by creating a comprehensive Java / J2EE based reporting and forecasting application. This application was integrated with the Oracle ERP to facilitate a smooth and streamlined business process management. The reporting module was customizable to include several parameters like seasonal fluctuation and turnover ratio, to generate scheduled and on-demand reports for large volumes of data as and when required.

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Physical Architecture

Proposed

User — Workstation

Oracle 10g App Server

Reports Request

Database (Oracle)

Authentication

Crystal XI

LAN

ERP DB (Staging Tables)

LDAP Server

Benefits

- Sales forecasts became an effective and comprehensive functionality of the purchase planning system

- Weekly Inventory Forecast as well as Forecast Calculation for 14 months is available

- The tool became an indispensable decision support system due to its enhanced reporting capabilities

- Smooth integration with the client's legacy systems resulted in improving the performance of this system

- Multiple users could benefit from the this tool including suppliers as well as distribution

- Huge time and cost benefits were generated through the usability, efficiency and high performance of the tool

- Accuracy of reporting improved the quality of the entire purchase planning business process as a whole

- Single sign-on helping the users of multiple locations to access the integrated system

- Better Planning, efficient operation and lower inventory levels

- Fulcrum's complete ownership of the system has resulted in very less overheads for the Client team