Case Study

Material Management System

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Case Study

Material Management System

Clients

World leading supplier of specialty chemicals to antiperspirant, water treatment and paper industries.

The Company

Company is based in USA, with three manufacturing facilities (including one offshore), with global distribution network in more than 35 countries.

The Objective

Group is involved in chemical Research-Development, manufacturing of specialty chemicals and water treatment plants. Group's chemical research company stands proudly as a world leader in the supply of antiperspirant actives.

Managing all processes and data of raw material, production, stock levels, vendors, consumers and employees is extremely challenging and time consuming, especially when organization is dealing with world leaders in respective industries, has multiple manufacturing facilities, and world wide distribution network. The challenges for organization are to increase efficiency and reduce costs of production and inventory through efficient, and integrated online management of manufacturing locations, warehouse locations, material transfer and easy drop shipment processing. Company decided to implement online material management system to enhance these efficiencies.
Elegant MicroWeb material management system for the customer. Elegant MicroWeb has developed the material management system to provide material visibility throughout inbound, receipts, order processing, storage, dispatch and shipping. Material Management System provides a powerful and flexible approach to manage these processes. The system also provides effective and valuable management information. It provides all functions related to control and management of material throughout the supply chain. Below listed modules were included in the system:

Material Management System consists of following modules. System also gives real-time effect to accounting system.

- **System Management:**
  All basic elements used system can be configured from here. It mainly contains carriers, location, departments, document of transportation, freight terms, material types, Stock Keeping Units, materials, units, payment terms, tax rates, QC status, QC level codes, country, state, item & currency types.

- **Security Management:**
  It helps to define application security and employee's basic information. Administrator can associate access rights with job function and based on employee's Job Function employee will have access to functions in system.

- **Sales Management:**
  Sales related information like customer profile, sales person, price quote; sales order and product pricing can be managed from here.

- **Quality Assurance:**
  It contains formulation information, test definitions, specification of material for product, QC test log to enter QC results and QC status and certificate of analysis (COA).

- **Raw Material Management:**
  Functions like storing vendor information, placing purchase order (single and regular), and receipt of material and history of received material.

- **Finished Inventory Management:**
  All information related to produce goods is kept in this module. It contains shipping details of items, bill of lading and return finished product from customer information.

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**The Solution**

Elegant MicroWeb worked closely with the customer team to develop and implement material management system for the customer. Elegant MicroWeb has developed the material management system to provide material visibility throughout inbound, receipts, order processing, storage, dispatch and shipping. Material Management System provides a powerful and flexible approach to manage these processes. The system also provides effective and valuable management information. It provides all functions related to control and management of material throughout the supply chain. Below listed modules were included in the system:

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The Technology:
- RedHat Linux 7.2
- Apache Tomcat 5.5
- JDK 1.4
- Sybase ASE 12.5.1
- AXIS 1.3 Web Services Platform
- Microsoft .Net platform
- ElegantJ PDF Library

Inventory:
It is used for inventory adjustment to create new lot and container, quantity adjustment to adjust quantity required and quantity available in container, item or location or pick wise inventory, consignment inventory of customer.

Production Management:
This module provides information related to production planning. It mainly has work order, repack Order and planner to view production schedule.

Reports:
Each module has several reports with exporting to PDF and e-mailing facility.

Conclusion
Elegant MicroWeb with it's rich functional and technical experience to design and implement ERP for SMEs, was able to suggest the best possible functional and technical architecture to provide scalability and investment protection. Elegant MicroWeb worked closely with the client for technical feasibility, architecture, functional specifications, design, development, deployment and UAT. Client received the complete system in time within the predefined budget limits, with options to enhance and sustain application in very cost effective and efficient manner.
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Contact Us

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