

Case Study: Data Change Application

Tools and Technology

Technology:

- Visual studio 2005
- Dot net framework 2.0

Database:

- Microsoft SQL Server

OS:

- Windows XP professional and latest service pack

Web server:

- IIS 6.0

Hardware requirements:

- RAM: 1GB
- HD: 80 GB
- Processor: P4

Client Background

ITT Corporation is a high-technology engineering and manufacturing company with approximately 40,000 employees, operating on all seven continents in three vital markets. They are pioneers in providing repair and maintenance services for the products it manufactures. The company is majorly into three primary segments: Defense Electronics (combat radios, night vision devices, airborne electronic warfare systems), Fluid Technology (pumps, mixers, heat exchangers, and valves for water and wastewater systems), and Motion and Flow Control (connectors, boat pumps, shock absorbers, friction pads for communication and transportation applications) and makes about two-thirds of its sales in the US.

Business Need

ITT choose Bourntec to design and develop an application to update the importing process. The job requires updating the database by processing various factors. The customer already had a team working on the current RCW Consolidated sales database updating process, where the current data import process does not allow for 'after the fact' changes to the data.

As it was a key phase of the whole business cycle, the Client needs a simple, efficient, stable and secured web based application to reflect the changes there were made in to the RCW Consolidated Sales because of various factors, including organizational changes, human error, etc.

The Solution

The application should have a high level of performance and a greater data security. It also, should have a socket to enhance the application for the future changes. So, here we have to implement couple of things dynamically & all the lookup values can be provided as a coming setting where it can be easily configurable for the future changes and enhancements. Also, in the application we created multiple instances for the same data form where the user can enter the data and save the changes.

The application was designed and developed on a secured web application using 3 - tier architecture following the guide lines of enterprise architecture and web 2.0 standards.

The system was developed as a web-based application hosted on IIS 6.0 on windows 2003 server. The front-end was browser based, middle-tier was developed in C#, and back-end was MS SQL Server 2005.

Client Benefit

- ✓ Designed to easily incorporate into existing application and data.
- ✓ Avoided errors in Data change and become simple to monitor the changes
- ✓ Performance Improved and the Customer Access Time Reduced to 25%