

Microsoft .NET Web Application

Major Safety Testing Company

Case Study

Solution Overview

Industry

Health Care

Development Time

5 Months

Technology

Microsoft.NET 2.0 Framework
AJAX.NET

Benefits

From a business stand point the application allows the target users to make better decisions on supply and demand needs.

From a technology side by using object-oriented techniques, the team realized a high degree of code re-use and was able to respond to a variety of demands in a minimal amount of time.

Going forward the as the business fine tunes the green field application the technology infrastructure will make easier on IT.

This independent, not-for-profit product safety certification organization has been testing products and writing Standards for Safety for over a century and evaluates more than 19,000 types of products, components, materials and systems annually. Its worldwide family of companies and network of service providers includes 66 laboratory, testing and certification facilities serving customers in 104 countries.

The company was faced with the issue of how to effectively manage human capital to reduce cost and turn around time to make themselves more competitive in their market place.

Solution Challenge

The mission of this project was to create an application to provide section managers with metrics based on analysis of past performance and predicting future workflow and throughput.

Some of the challenges were:

- Create a Web-based application so deployment worldwide can be achieved easier
- Integrate with current data warehouse
- Use a green field application to gather the best requirements possible knowing not all the answers are available
- Train junior programmer on Microsoft.NET technologies.

The Solution

The solution was to create a Microsoft.NET application using an iterative requirement and development approach:

- Use RUP Methodology to approach requirements & development
- Create a subset of the data warehouse housed in a readily accessible data repository to provide a vast amount of historical data, as well as current data from other databases.
- Develop security to limit the user base to authorized parties. Additional role-based security was imposed to control access to various features
- Use Microsoft's .NET 2.0 framework, AJAX.NET, for handling screen rendering tasks and web services to provide for mathematical calculations and programming logic.

- Hire a point person to train and coach the company's employees to complete knowledge transfer of the application and technology
- Include a pilot phases as a part of the approach to fine tune calculations and assumptions

The Benefit

From a business perspective, the application allows the target users to make better decisions on supply and demand needs.

From a technology perspective, by using object-oriented techniques, the team realized a high degree of code re-use and was able to respond to a variety of demands in a minimal amount of time.

Going forward, fine tuning the green field application the technology infrastructure will be easier on IT.