UBANGS

Client Need:

The Environmental Division of the US Government agency is responsible for monitoring and tracking the disposal or reutilization of hazardous and nonhazardous wastes from its various locations throughout the country. They used a legacy standalone application for partially automating the business process involved in the accumulation and electronic turn in of profile sheets and disposal turn-in document (DTID) forms to the DRMO. In this model, each application had its own client program which served as its user interface and had to be separately installed on each user's personal computer. An upgrade to the server part of the application would typically require an upgrade to the clients installed on each user workstation, adding to the maintenance cost and decreasing overall productivity.

The client wanted a system that was

- Easy to maintain.
- Scalable and powerful.
- Enhance able to handle the features that their end users were demanding.
- Easy to integrate/implement with existing systems.
- .Net Compatible for enhanced features.

Plateau-iLink Team's Solution:

The team, which comprised of functional and technical experts from both Plateau Software and iLink Systems, designed and developed an enterprise web application to automate the DRMO turn in and feedback process. The system with its hierarchical and role based security automated the work flow involved, as well as archived and consolidated the data contained in the Waste Profile Sheets and DTIDs for easy future reuse and/or reference. The solution provided an efficient, maintainable, productive and scalable system. Web based U-BANGS Reports a key component was developed to view/track all the information stored centrally in the server.

Features

- Ability to access data from any computer with a browser.
- Server upgrade wouldn't require any change on the client side.
- Reduced Redundancy of data and screens.
- Role based access.
- Web based Reports.
- Scalable.
- Eliminated inconsistent data in individual PC's by consolidating data in a central location.

Business Value

- Reduced redundant data entry resulting in minimized data errors.
- Reduced maintenance cost and increased maintainability, as the data is stored centrally in the server.
- 24X7 access from any web connected PC.
- Efficient communication with DRMO for electronic turn-ins and feedback.
- Better organization of information resulting in increased productivity.
- Easy to integrate with other enterprise applications.

Technology Used

U-BANGS was developed using three tier architecture – easily navigable user interface (UI), business logic and data access from database.

User Interface tier: Static HTML and ASP .NET pages.

Middle Tier Design: Code behind pages coded in C#.

Data Tier Design: Microsoft .NET Application Blocks, Stored procedures, Views and Tables on MS SQL Server 2000.

Reports: MS SQL Server Reporting Services 2000.

Communication Protocol for electronic turn-ins and feedback: XML.