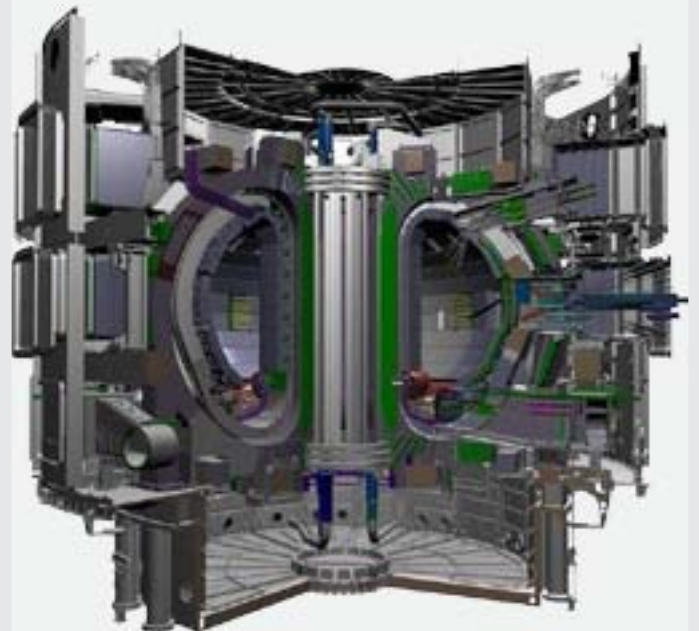# Collaborative Platform
For
France Based Client

[SCIENCE & TECHNOLOGY – COLLABORATIVE PLATFORM – SILVERLIGHT, WCF, RIA SERVICES, ASP.NET, .NET 4.0]

Client Overview

About Client: Client is a research center across the word where in outstanding scientific environment and technical infrastructure already in place. This firm is also known as world's largest fusion experiment and positioning as scientific and technological hub.

Requirement Overview: The objective is to develop Secure, web based access to the databases, Powerful search capability (full text), Common as well advance search with reporting and chart, Easy (intuitive) use (left side folder navigation), Integrated of workflow with Signing, approval (electronic signature), Comments, Attachments, History (changes are traced), Authentication via AD (Active Directory), folder based read / write access, Valid in folders / subfolders, Definition of local custom groups, global groups, Delegation of Authority: set new ROs, Delegation of work, provide option to work for somebody with his rights by setting trusted person, UID assignment, Generic generation of new content via XML, Export to Excel and Word of every content.

Proposed Solution: SilverTouch has proposed technical solution based on client requirement on Silverlight, WCF, RIA Services, ASP.Net, .NET 4.0 over the IIS 7.0 web server along with the SQL server database.

Collaborative Platform

Benefits

1. The internal staff users can able to access organizational database across the world.
2. The users will able to access securely web access to use the database.

Project Description

Client is a joint international research and development project that aims to demonstrate the scientific and technical feasibility of fusion power. The partners in the project - the Parties - are the European Union (represented by EURATOM), Japan, the People´s Republic of China, India, the Republic of Korea, the Russian Federation and the USA.
The System consists of two parts: CORE (class library), IWP (web portal).
Project has a Content Management System. In that Electronic Document Management Software System that includes Workflow, Content & Portal Management, Document Imaging and Scanning, Electronic Forms, document versioning, History management, sending emails, Records Management modules under one integrated software suite., Action which maintain track of project and milestones, Ticket System, Phone Book, Neutronics management system, Procurement Package , SSEPN (Energy purchase system), Conductor, Project breakdown structure, Contract management and so many other systems. This application is based on OOPs concepts, 3 tier architecture and made using agile software methodology.

Objectives

The Project Objectives were:
1. To evaluate best solution for migrating databases from Zope to SQL Server and python to ASP.net with a minimum timeline and zero data loss.
2. Link between various content types- For example: room DB and electrical loads DB, Complex work flow- IDM with relatively simple flow, APAP / DCR with much more complex workflows, One DB model to represent complex content types with various data types.

Project Approach / Activities

The Project was divided into various phases to achieve the best results in less time with optimal utilization of available resources

1. Phase I: Understanding Architecture, implementation and functionality of the working application, database design and dependable entities. Review risk points of current database and application. Also review features used in current database.
2. Phase II: Create new application with ASP.Net and SQL Server which contains all basic functionality of current system.
3. Phase III: Make Migration Plan for moving old data to new database with help of XML import/ export.
4. Phase IV: Setup of testing environment (same as the production environment) and creation of same workload as production environment.
5. Phase V: Compare performance of application in upgraded database without any optimizations.
6. Phase VI: Implementation of design patterns to improve performance, code readability and code separation.
7. Phase VI: Created Horizontal database for creating reports, and advance search

Collaborative Platform

Technology

Development Platform

Technology	Specifications
Technology & Framework	Silverlight, WCF, RIA Services , ASP.Net, .NET 4.0
Database	SQL Server
Languages	VB.Net, XAML
Operating System	Windows 7 Enterprise
Web Server	IIS 7.0

Deployment Platform

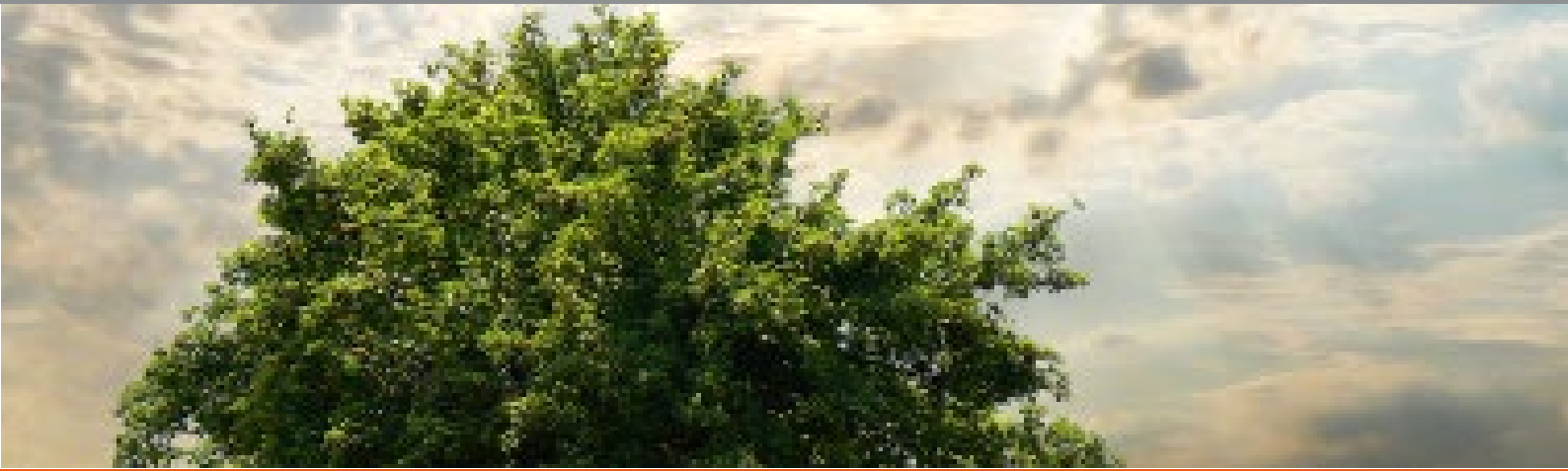| Technology	Specifications
Technology & Framework	Silverlight, WCF, RIA Services , ASP.Net, .NET 4.0
Database	SQL Server
Languages	VB.Net
Operating System	Windows 2008 Server
Web Server	IIS 7.0

Duration

Project Man Hours: 7680, Still development is continue

Project Life Cycle: Project started from March 2007, ongoing development

Results Achieved

1. The results of the migration were very positive for the customer as the performance was improved significantly; especially in various report generation.

2. The upgrade was smooth and done in within the time estimation with utilization of very less resources and minimal downtime. And most importantly, without making any change in the current application. Different applications are working on same generic interface and new application development is very easy and fast just by creating schema of the type. Search of data is easy, fast and user friendly.

Deliver best products, software solutions and services, on time with quality, and as per customer expectations

About SilverTouch

SilverTouch, a company established in 1992 is widely accepted for its IT solutions with a huge customer base in more than 20 countries across the world.

SilverTouch is actively engaged in Enterprise software development, enterprise content management, document management and IT consulting services such as Business process optimization, process consulting, implementation and customization of ERP. SilverTouch leads brilliantly in new technical developments such as: Mobile Application development services on iPhone, iPad, Blackberry, Android, J2ME and Windows mobile platforms. Even now, SilverTouch helps its global clients for major developments, deployments and managements of their mobility solutions and enterprise application development programs.

SilverTouch has alliance with several industry leaders such as Microsoft, Apple, Cisco, IBM, Oracle, SAP, Java, Dell, VM ware, Symantec, Sonic Wall which provides a competitive edge over other industry peers and targets to understand and cater to all types of requirements that concern our clients, thereby, leading to serve them precisely to their satisfaction.

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