

E-LEARNING SYSTEM

CASE STUDY

Star Search Technologies partnered with leading providers of network solutions and services, to develop an integrated solution for E-learning. The solution integrates different user channels with legacy system and manages virtual classroom activities (Registration, Scheduling, Attendance etc.,). The architecture of the solution is based on the Microsoft .Net Framework and integrates the client interfaces through XML -Web Services.

The Challenge

It involves in developing a robust web based and windows based enterprise solution and integrating those using Web Services. Major architecture issues had to be considered and addressed. These include:

- Provide a standard security model.
- Meet acceptance performance levels.
- Provide a maintainable and scalable solution that could be hosted or deployed locally.
- Interoperability- Provide a seamless integration between different applications for a unified view of information.

The Solution

To address the issues the system was designed in 3-tier model. This model provides a modular and scalable approach to application development and deployment while providing a way to integrate existing applications into seamless user environments. The three components include:

- Tier1- Front-end Web and Application Interface
- Tier2-Middle Application logic-XML web services
- Tier3-Backend Database

Component based approach is used to develop the business logic and external interfaces interact with the business logic using XML Web services. This solution also provides a way in exchanging the data with external interfaces using XML.

TOOLS & TECHNOLOGIES

It is developed using Microsoft .Net Framework incorporating XML-Web services components as middle layer.

Tools: MS-Visual Studio .Net

Database: MS-SQL Server 2000

Middle Layer: XML-Web Service

Languages: C#, ASP. Net, HTML

Operating System: Windows 2000/XP

Delivery Model

The project was developed in complete offshore model. Entire project was executed at our offshore development centre adhering to the quality process.