



Auriga Development Experience with Microsoft .NET technology

Overview

Development of high quality applications on Microsoft .NET platform is one of Auriga's key competences. Auriga has successfully completed on time and within budget almost 20 projects implemented on Microsoft .NET framework, with the project size ranging from 1 to 40 man-months.

The .NET projects have included both Windows and Web Applications. Majority of the .NET projects have been Enterprise-grade web-based applications utilizing multi-tier architecture, rich DHTML client UI, Web services, high performance business logic processing large amounts (hundreds of Gb) of data on Microsoft SQL Server and Oracle database servers.

Auriga .NET development experience includes projects developed with .NET Framework (1.1 and 2.0). Many of the implemented projects utilize 3rd party components such as Windows Controls, ActiveX and COM components, Web services. Auriga considers this kind of experience to be quite valuable, since the use of 3rd party proprietary components always carries a risk of component malfunctions that are not under the control of a development team. Thus the importance of design and testing phases is much higher for such projects.

Some of the .NET projects have involved integration of non-Microsoft technologies, such as the customization of Microsoft Project Server featuring AJAX-like implementation based on JavaScript, ActiveX and HTTPXml Request objects.

Depending on the client's wishes, Auriga performs requirements analysis, design, testing, documentation, deployment and maintenance—the full life cycle. Auriga has well-established and optimized approaches and procedures for analysis, design, testing and change request processing activities.

Auriga provides project management services that comply with the client's preferred project management methodology. Auriga teams use popular Agile and full-cycle MFS methodologies and possess expertise in the best practices and effective implementation of these methodologies.

Skills

Auriga engineers possess following skills

- Microsoft .NET framework 1.1
- Microsoft .NET framework 2.0
- ActiveX
- COM
- C#
- ASP 1.1, ASP 2.0
- XML/XSLT/XSL-FO/XPath
- HTML/DHTML/JavaScript/CSS/VBscript
- Web Services
- .Net Remoting
- GDI+,
- SQL Server 2000, Microsoft Access, Oracle
- Microsoft Active Directory

Auriga development teams' deep knowledge in the following aspects and technologies allows Auriga to provide optimal solutions and to achieve customers' satisfaction.

- OOP design patterns
- App domains, multithreading, networking, security
- database design, programming and optimization
- reporting technologies (Crystal Reports, proprietary tools)
- interoperation with legacy COM applications and C/C++ libraries
- wide experience in Windows core services such as:

Continued on the reverse side



memory management, core objects, file system, services, windows security, Active Directory, GPO, Microsoft Exchange, COM, GDI, networking, driver development, etc

- Automation testing tools
- Unit testing
- Windows CE, Windows XP Embedded.

Examples of Recent Projects

National High School Graduation Exams Information System

Auriga team was responsible for the design, development and deployment of a powerful 3-tier web-enabled information system for planning, scheduling, resource allocation and management, exam scheduling and execution, exam results registration and accumulation, test scoring and certifications printing.

- Project was based on Microsoft .NET Framework 1.1 platform
- Data Access Tier (MS SQL Server with a very large number of optimized queries and stored procedures);
- Business Logic Tier (components are executed on a server side, web services API are provided);
- UI-tier (a comprehensive web interface provides access to generating numerous complex reports).

National High School Graduation Exams

Information System—Camera Control Module

Auriga team was responsible for the design, development and testing of the module controlling video cameras for National High School Graduation Exams Information System. The application implemented camera exam assignments, video recording, translation and viewing of real-time recording on the Web. Web Application component as well as the Windows Application component were developed. Application utilized 3rd party software components provided by D-Link. Project was done on Microsoft .NET Framework 2.0 platform with ASP 2.0, C# and extensive use of XML. User interface was designed utilizing custom user controls and XML templates for page layouts allowing easy changes to the layout without rewriting the application code.