

► .NET Application Development & Programming

The .NET Framework created by Microsoft is a software development platform focused on rapid application development (RAD), platform independence and network transparency. .NET is Microsoft's strategic initiative for server and desktop development for the next decade. According to Microsoft, .NET includes many technologies designed to facilitate rapid development of Internet and intranet applications.

.NET has brought new functionalities and tools to the application programming interface (API). These innovations allow development of applications for both Windows and the web as well as components and services (web services). .NET provides a new reflective, object-oriented API. .NET is designed to be sufficiently generic so that many different high-level languages can be compiled.

There is a collection of development tools specifically developed for use with the .NET platform. The principal example is Visual Studio .NET, an integrated development environment from Microsoft.

► Acuita's Expertise in .NET

Acuita provides design, development and integration business solutions based on the .NET platform. Our team of experienced Microsoft certified .NET architects, analysts and developers delivers a wide range of comprehensive solutions in the following key areas.

- ✘ .NET Dynamic Web Application Development
- ✘ .NET Software Product Development
- ✘ Migration of Web and Desktop Applications to .NET
- ✘ Web Services Based .NET Application Development

► .NET Dynamic Web Application Development

In order to succeed in the ever evolving and dynamically changing business environment, such features as easiness of GUI navigation, flexibility in changing business rules, data mining and data transformation services (DTS) are crucial for any desktop or web application. Other important issues that need to be considered are security, role-based access of the information, backup/archiving, fail-safe and auto recovery, trail-back and application logs. For achieving these common business goals, Acuita's developers use the full range of .NET framework functionality for building sophisticated stand-alone applications as well as hosted applications.

► .NET Software Product Development

Possessing an in-depth understanding of independent software vendors and software product companies' needs, such as short development and testing lifecycles, reducing software development and support costs, enhancing product functionality for generating greater value to the customers, Acuita is committed to providing .NET software product development services based on specific clients' requirements and business goals. Our .NET based product development and engineering framework encompasses the full life-cycle starting with strategic planning and conceptualization, architecture and design, development, testing, deployment and enhancements up to porting and ongoing support of the end-to-end custom software product.

► Migration of Web and Desktop Applications to .NET

For enterprises facing the need of applications or databases migration, Acuita's .NET Department offers a comprehensive suite of services on migration to .NET, whether it involves migration of legacy Win32 (Visual Basic, Visual C++, J2EE, FoxPro, Powerbuilder or Delphi applications). Some of the common reasons for migration to .NET are issues of obsolete technology and scarcity of resources for maintaining older applications, complex architecture and scalability problems, business logic mix-up, integration problems with other systems and difficulty in upgrading the system for new user requirements.

Our migration approach starts with understanding our clients' business needs and thorough technical evaluation of the existing applications, resulting in defining a strategy and methodology tailored to the specific requirements and objectives of our customers. The team comprised of experienced professionals proceeds to the application migration with further customization and extension, whether it is integration, web enabling, incorporating new modules, optimizing for performance, or enhancing end user experience. As a result, our clients can enjoy all benefits of migration to an open, advanced, flexible, secure, reliable and highly adopted platform - Microsoft .NET, such as: web service support, platform independence, standard base types across languages, multiple language support, interoperability and smooth connectivity of multiple systems and sources of data, standard toolset for any .Net language, support for mobile devices, standards integration (XML, SOAP, etc.), rapid development and ease of deployment.

► Web Services Based .NET Application Development

.NET development team at Acuita leverages the full range of .NET functionality for building enterprise-class Web Services Based .NET applications. The .NET Framework is an integral Windows component that supports building and running the next generation of applications and XML Web services.

ASP.NET is the hosting environment that enables to use the .NET Framework to target Web-based applications. However, ASP.NET is more than just a runtime host; it is a complete architecture for developing Web sites and Internet-distributed objects using managed code. Both Web Forms and XML Web services use IIS and ASP.NET as the publishing mechanism for applications, and both have a collection of supporting classes in the .NET Framework.

XML Web services, an important evolution in Web-based technology, are distributed, server-side application components similar to common Web sites. However, unlike Web-based applications, XML Web services components have no UI and are not targeted for browsers such as Internet Explorer and Netscape Navigator. Instead, XML Web services consist of reusable software components designed to be consumed by other applications, such as traditional client applications, Web-based applications, or even other XML Web services. As a result, XML Web services technology is rapidly moving application development and deployment into the highly distributed environment of the Internet.

The .NET Framework also provides a collection of classes and tools to aid in development and consumption of XML Web services applications. XML Web services are built on standards such as SOAP (a remote procedure call protocol), XML (an extensible data format), and WSDL (the Web Services Description Language). The .NET Framework is built on these standards to promote interoperability with non-Microsoft solutions.

ASP.NET is more than the next version of Active Server Pages (ASP); it is a unified Web development platform that provides the services necessary for developers to build enterprise-class Web applications. While ASP.NET is largely syntax compatible with ASP, it also provides a new programming model and infrastructure that enables a powerful new class of applications. You can feel free to augment your existing ASP applications by incrementally adding ASP.NET functionality to them.