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QAT Solutions Application Development and Support (ADS)

ADS Overview

Whether it's modernizing a legacy application, developing a SOA or fulfilling a requirement to meet changing business needs, QAT has the expertise and experience to meet your needs. For over 10 years QAT has delivered in the analysis, design, implementation and support of large scale, custom applications for commercial and government customers, domestic and international.

Our Application Development and Support (ADS) service provides full lifecycle support, from design and architecture through development, testing and deployment. Modern software architecture is driving beyond the traditional monolithic structure with ubiquitous web services and rich web interfaces. QAT thrives in the cutting edge technologies that enable business value through custom applications.

Organizations looking to outside partners to provide custom software have many options, but few companies are as skilled in software architecture and design as QAT. Experience the difference that QAT application development and support can bring to your organization.

Software Architecture

The most common area for failure in application development projects is in the hand-off between enterprise architecture and application architecture. Taking the hard work of an enterprise application framework and reference architecture and developing a true application requires detailed methodology, firm understanding of application development principles and strict adherence to the often newly-created standards for software development. QAT Application Architects have the proven experience to bridge the gap between enterprise and application architecture, using QAT proven methodologies and design principles. Our services mitigate the most common risk to successful application deployment and position your critical software for success.

The QAT Software Architecture service includes:

- ◆ Create candidate and solution architectures
- ◆ Analyze technical environment for reusable components, services, and platforms
- ◆ Integrate an Enterprise Service Bus (ESB) and define adapters
- ◆ Assure compliance with reference architecture and enterprise standards
- ◆ Plan the integration of legacy applications and phase out roadmaps

Requirements Analysis and Design

QAT provides consulting for requirements analysis and design in custom software projects. Modern software has progressed quickly from the traditional monolithic architectures and into the loosely coupled, service based designs inherent within an SOA environment. The task of analyzing requirements and designing custom software has changed dramatically along with the underlying architectures. As you prepare to begin the requirements and design tasks for your new system, there is no end of options for external consulting partners who are skilled in traditional application design, but QAT stands alone in this area as the premier provider of software designs within modern environments.

The QAT Requirements Analysis and Design service includes:

- ◆ Define and design service components, services, and frameworks
- ◆ Design web services for maximum reusability
- ◆ Design and prototype UI (Web, Window etc...)
- ◆ Design database structure, relational layout and performance profiling
- ◆ Develop prototype code to guide development efforts and prove concepts

Multiple design methodologies exist for requirements analysis and application design (such as Agile, RUP and others). QAT uses its methodology which combines the iterative development components of Agile, the proven requirements definition techniques of RUP, with the years of QAT experience in the unique design challenges of custom software development.

Business and Systems Integration

QAT provides consulting for business and systems integration. Organizations moving to an SOA based architecture face the ubiquitous problem of integrating existing and legacy applications and data sources into the new architecture. In addition, most organizations today also have increasing integration needs with partner provided applications or hosted applications and data sources. A true SOA system must incorporate new services with existing applications, partner data sources, and hosted applications. QAT's Business and Systems Integration services ease the transition to SOA by interfacing legacy and external resources into new systems.



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QAT has significant experience with incorporating external applications and data sources into your internal architecture to extend your business beyond the walls of your organization.

The QAT Business and Systems Integration service includes:

- ◆ Develop web service wrappers for existing data sources and functions
- ◆ Integrate services into an ESB and SOA infrastructure
- ◆ Integrate legacy applications through web services or custom adapters
- ◆ Integrate partner applications and data sources into new applications
- ◆ Expose core functionality of existing systems for use by other applications
- ◆ Leverage existing code and databases within your modern SOA environment

Iterative Application Services

QAT provides consulting for software development projects. Software development requires specialized skills and techniques. These include proven skills in hard to find skills such as web services, SOA, XML, .Net, J2EE, and ESB integration. No matter the development or deployment platform, the experience of QAT consultants maximizes the value of a new system by accelerating the deployment time while meeting or exceeding all user requirements.

QAT uses its Software Development Methodology. QAT's methodology is not a new non-standard development approach, but is a version of RUP, leveraging the iterative lifecycle approach of Agile methodologies. Our standards-based approach, drawing upon experience from hundreds of successful software development projects, ensures repeatable success in the software development paradigm.

QAT's Iterative Application Services include:

- ◆ Execute full lifecycle projects based on software designs
- ◆ Utilize Agile development methodologies, with strict governance
- ◆ Develop web services, data access adapters and business logic
- ◆ Define testing scenarios and perform QA and UAT testing
- ◆ Deploy completed system into production usage
- ◆ Provide ongoing maintenance and support of production systems

Global Delivery Model

Our unique development methodology combined with a Global Delivery Model (GDM) enables us to develop solutions for virtually any kind of business. At QAT we offer onsite, offsite and offshore development, maintenance, and management of all or a part of the software applications for our clients. We offer a wide range of services that include new development, support, enhancement, and other auxiliary services.

Our GDM leverages talent and infrastructure from different parts of the world to ensure rapid time-to-market solutions.

This model includes an appropriate combination of the following:

- ◆ Onsite Engagement
- ◆ Offsite Development - from our Development Center in Omaha
- ◆ Offshore Development - from our Global Development Center in Brazil

In developing a unique solution for your company, we consider cost, complexity, infrastructure, resource requirements, testing, and maintenance and then suggest the most-optimal solution:

In all cases, we create and promise these benefits:

- ◆ Ownership and Responsibility
- ◆ Cost Savings
- ◆ Guaranteed Service Levels
- ◆ Business Value

Our competent methodology and proven project management techniques assure our clients that the outsourced operations are properly managed, so they may focus on more strategic efforts. As a result, our clients realize tangible and intangible values such as reduced costs, improved employee morale, and decreased people dependency without compromising on quality or function.

Why QAT?

Our approach and implementation to ADS is founded on our practical experience in building working products and solutions for enterprises across the globe.