

Enterprise & Hosted Application Software Development Platform for Microsoft .NET

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Architecture

The NetQuarry Enterprise Application Platform (EAP) allows you to build and deploy n-tiered, enterprise quality applications. The EAP sits on the Microsoft .NET common language runtime and provides rich functionality at all layers of an application.

The NetQuarry EAP does not generate code, rather, it uses the NetQuarry Core Runtime, custom configuration, metadata, and developer coded extensions to construct world class, quality applications.

Presentation	Application	Data Access	Services
Datasheets	Role-based Security	Database independence	Custom Webservice provider
Web Forms	Robust, simple extension model	Object Relational Mapping	Inbound/Outbound Email handling
Rich Filtering, Sorting	Rich Validation	Enterprise Scalability	Alert management
Client and Server-side field validation	Internationalization Support	Multi-Data Source support	Task scheduling
Custom Layouts and Template support	Scheduled Task Support	Non-relational data support	Data import/export management
NetQuarry Metadata			

The application is divided into four logical layers: Presentation, Application, Data Access. Each layer supports customization and configuration at every level. Much of the configuration aspects of a NetQuarry application exist completely in metadata, making most of the application development work simple and rapid. Where more power is required, there is a robust, simple extension model that allows the developer complete control over both the NetQuarry platform and the environment.

The presentation layer is a set of reusable ASP.NET based user interface elements. There is full support for custom ASP.NET pages, either bound to the underlying NetQuarry Data Mapping objects or completely standalone. The presentation layer is a first class consumer of the application layer interface.



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The application layer provides a fully **componentized, loosely coupled, and reusable extension model** that allows the application developer to add their own domain-specific business logic without wading through **any** generated or platform code. Extensions are a key concept of the NetQuarry platform. Extensions are libraries that receive events from the running application objects. **This is a powerful programming pattern that is extremely simple for application developers, even those unfamiliar with Microsoft .NET to quickly grasp and master.**

Additionally, the application layer provides a single, consistent interface for accessing business logic and data access. This same interface is used by the platform to expose your custom application-layer objects as WebServices, allowing you the same interface via SOAP that the presentation layer uses to provide an ASP.NET end user experience. The application layer also provides support for internationalization, allowing an application using NetQuarry to run simultaneously in multiple languages.

The data access layer uses ADO.NET to access data sources across your enterprise, **regardless of the underlying data store**; relational, Webservice-based, or procedural. The Database layer provides true data source independence and rich Object Relational Mapping (ORM), all with enterprise scalability. The ORM layer (IMapper) provides a simple but rich programming interface to the underlying data store.

The services layer provides rich runtime services, such as email processing, alert management, and task-scheduling. In addition, applications created using NetQuarry have their business objects automatically exposed as **fully typed Web-Services** to the external world.

Because of the deep support for configuration in metadata, the platform also affords developers with deployment tools and methodologies that make moving from development to test, test to production simple, fast and flawless.

Metadata is a proven, first-class component of modern enterprise architectures. However, management of application metadata often proves a difficult task. NetQuarry promotes the metadata to the same level as custom source code, allowing developers complete control over versioning and deployment.

Modern enterprise applications demand a lot from today's application developers. The key to consistent success is choosing a modern infrastructure that allows developers to concentrate on the application, and the application end-users, rather than application infrastructure.

