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**Getting Started with ASP.NET Classes**

**By Balaji**

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Getting Started with ASP.NET Classes

The class is an object-oriented programming term to refer to a data structure that describes an object or a data member. The .Net Framework has an exclusive set of class libraries such as data access, XML support, directory services, regular expression, and queuing support.

The data access class library provides data access ASP.NET Classes to connect to SQL Server or any OLEDB provider. The XML support class library has XML Classes that go beyond the capability of MSXML. The directory services library is used to access Active Directory/LDAP using ADSI. The regular expression library supports all the above mentioned ASP.NET Classes any more than that it also supports Perl 5.

All the above mentioned class libraries use the CLR base class libraries for common functionality. These base class libraries can be divided into six categories:

- Collections: Used to preserve a collection of values or objects in memory. The three commonly used collections ASP.NET Classes are ArrayList, HashTables, and SortedList. The System.Collections namespace is used to derive collections ASP.NET Classes.
- Thread Support: Used to provide fast, efficient, and multi-threaded applications. It uses System.Threading namespace.
- Code generation: Used to convert ASP.NET pages into ASP.NET Classes and to generate source files in multiple languages. The System.CodeDOM is used to derive the code generation ASP.NET Classes.
- IO: Used to work with files and all other stream types. It uses System.IO namespace.

- **Reflection:** Used to provide support for load assemblies, inspecting types within assemblies, and creating instances of types. It uses System.Reflection namespace.
- **Security:** Used extensively to build a security strategy for ASP.NET pages. It also provides some base services such as authentication, authorization, permission sets, policies, and cryptography. It uses System.Security namespace.

There are numerous ASP.NET Classes. If you want to find and locate a particular class then you can use the WinCV tool. This file is located in C:\programfiles\Microsoft.Net\Framework\SDK\bin directory. You can open this file from the Run command.

To access online version of the above article, go to <http://www.dotnet-guide.com/classes.html>

Visit <http://www.dotnet-guide.com> for a complete introduction to .NET framework. Learn about ASP.NET, VB.NET, C# and other related technologies.

### **Understanding Custom Server Controls in ASP.NET**

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##### Understanding Custom Server Controls in ASP.NET

ASP.NET offers many server controls for the developers to create web applications. However, at some point of development time when the developer does not get the control they want, they can create a new server control. This new server control can be called ASP.NET Custom Server Controls or user control. The basic difference between a ASP.NET Custom Server Controls and a user control is that unlike a user control that does not appear in the Toolbox, you can view a ASP.NET Custom Server Controls in the Toolbox. ASP.NET Custom Server Controls have their own events such as Enter, Onclick, and Onmouseover.

ASP.NET Custom Server Controls are very handy tool to use in your web forms. User controls prove inefficient in advanced scenarios. ASP.NET Custom Server Controls are the compiled code that makes them user friendly. You should write the ASP.NET Custom Server Controls in code, thereby view it in the visual designer with full properties and design-time features. You can create a ASP.NET Custom Server Controls by inheriting one of the base control classes. These classes have all the functionality that is needed for a server control. Therefore, you just have to modify some of the programming aspects to suit your requirements.

Just as you have created a ASP.NET Custom Server Controls you can customize it too to create a unique identity. You can even consume a single ASP.NET Custom Server Controls for multiple web forms. For ASP.NET Custom Server Controls only one copy of the control is needed in the Global Assembly Cache (GAC). Moreover, ASP.NET Custom Server Controls are very helpful if you want a

dynamic layout for your web application.

To access online version of the above article, go to <http://www.dotnet-guide.com/customcontrols.html>

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