

## Curso ASP.NET Using C# 2008

**Descripción:** En nuestro curso **ASP.NET with C# 2008** aprenderás cómo utilizar el Visual Studio 2008 y C# 2008 para construir páginas Web de ASP.NET 3.5. Comprenderás la arquitectura detrás de ASP.NET y cómo utilizar varios controles del servidor de ASP.NET. Aprenderás a crear Web sites consistentes usando páginas maestras, a agregar características de membresía, a configurar y desplegar aplicaciones ASP.NET para autenticar a usuarios y para limitar su acceso a los recursos, para manejar el estado, para dirigir a los usuarios usando las herramientas de la navegación del sitio, para depurar errores de código .NET y Javascript, y a desplegar y editar datos usando ASP.NET y ADO.NET. Además, aprenderás sobre nuevas características de ASP.NET 3.5, tales como el soporte para LINQ (Language Integrated Query), herramientas de CSS, páginas maestras anidadas, y más.

**Audiencia:** Programadores, desarrolladores o arquitectos de aplicaciones que deseen crear aplicaciones Web.

**Prerrequisitos:** Conocimiento de C#. Experiencia previa con ASP es deseable pero no esencial. Experiencia con ADO.NET es de mucha ayuda.

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## Contenido

### INTRODUCTION TO ASP.NET

- A Review of Classic ASP
- Dynamically Creating Web Pages
- ASP Shortcomings
- ASP.NET to the Rescue
- ASP.NET Web Applications
- Creating a New Web Application
- Rendering HTML with Server Controls
- Types of Server Controls
- Using HTML Controls
- Using ASP.NET Web Server Controls
- Data Binding in ASP.NET 2.0
- Web Development in Visual Studio
- Code Behind vs. Inline Code
- Web Sites and Applications
- ASP.NET Development Server
- Multi-Targeting Support

### THEMES AND MASTER PAGES

- Creating a Consistent Web Site
- ASP.NET 2.0 Themes
- Working with Themes, Folders, and Skins
- Applying a Theme
- Creating a Theme
- Working with Themes
- Creating Named Skins
- More Issues with Themes
- Master Pages
- Creating a Master Page
- Creating a Content Page
- Converting a Standard Page to a Content Page
- Adding Default Content
- Practical Master Pages
- Creating Nested Master Pages

## WORKING WITH CONTROLS

- Introduction to Web Controls
- The WebControl Class
- The Label Control
- Simple Input Controls
- TextBox Controls
- CheckBox Controls
- RadioButton Controls
- HyperLink and Button Controls
- Postback Behavior
- HyperLink Controls
- Button Controls
- Displaying Images
- Using the ImageMap Control
- List Controls
- The Sample Page
- Adding Items to Lists
- Adding Items Programmatically
- Handling Selections and Postbacks
- Clearing Selected Items
- Removing Items
- Controlling Focus
- Setting Form Defaults
- Calling the Focus() Method
- Using TabIndex and AccessKey
- Overriding Default Button Settings with Panel Controls

## USING RICH SERVER CONTROLS

- Introduction to Rich Controls
- The Calendar Control
- Working with the Calendar Control
- Handling Calendar Events
- Adding Custom Content with DayRender
- Investigating the Client-Side Code
- The AdRotator Control
- How the AdRotator Works
- Setting Up the Advertisement File
- Adding User-Defined Elements
- Setting the Target Frame
- Filtering Images with the KeywordFilter Property
- Using the AdCreated Event
- The XML Control
- Setting the XML Control Properties
- Providing the Style Sheet

## SITE NAVIGATION

- ASP.NET Web Site Navigation
- Providers and Data Sources
- Absolute and Relative URLs
- Creating an XML Site Map File
- A Hierarchy of Nested siteMapNode Elements
- Built-in and Custom Attributes
- Site Navigation Controls
- Breadcrumbs and Hierarchical Navigation
- Using the Site Navigation API
- Accessing Current and Sibling Nodes
- URL Mapping
- Mapping URLs in Web.config
- Adjusting the Site Map
- Using Multiple Site Map Providers
- Security Trimming
- Authentication and Authorization
- The Web Site Administration Tool
- Enabling Security Trimming
- Automatic Role-Based Trimming

## DISPLAYING DATA WITH THE GRIDVIEW CONTROL

- Introducing the GridView Control
- Displaying Data with the GridView Control
- Filter Data in the GridView Control
- Create the DropDownList of Countries
- Filter the Data Based on the Selected Country
- Allow Users to Select from a DropDownList in the Grid
- Introducing Templates
- Convert the Country Filed into a Template
- Add a Hyperlink to the Grid
- Create the CustomerOrders Page
- Create the Hyperlink
- Deleting a Row and Handling Errors
- Add the Delete Link
- Add the Client-Side Alert
- Add Event-Handling Code
- What's Left?

## ACCESSING DATA

- Overview of ADO.NET
- ADO.NET Classes
- The ADO.NET Architecture
- Creating ADO.NET Data Objects
- The DataTable Object
- Connecting to Data
- Setting up Connection Information
- Using the Connection Object
- Executing Commands
- Using a SqlDataReader
- Working with Data
- Working with Data Using a Data Adapter
- Managing Data with the DataSet Object
- Filling a DataTable within a DataSet
- Filling DataSets from SQL Server
- Choosing an ADO.NET Provider
- The SQL Server .NET Data Provider
- The OLE DB .NET Data Provider
- The ODBC Data Provider
- Writing Code for Multiple Providers

## INTRODUCTION TO LINQ

- Language Integrated Query
- LINQ Using Visual Basic and C#
- LINQ Syntax
- Basic LINQ Syntax
- Extension Methods
- LINQ and More Complex Objects
- Anonymous Types
- LINQ to SQL
- Creating a Data Model
- Calling Stored Procedures
- Using Anonymous Types with SQL
- Modifying SQL Data
- LINQ to DataSets
- LINQ to Typed DataSets
- LINQ to Untyped DataSets
- LINQ to XML
- Generating XML
- Querying XML
- Transforming XML
- Are You Done? Is there More?

## MANAGING STATE

- Preserving State in Web Applications
- Methods of Preserving State
- Page-Level State
- Enabling Dynamic Page Modifications
- View State and Page Lifecycle
- Enabling Change Events
- Understanding View State
- When to Disable View State
- The Limitations of Page-Level State
- Using Cookies to Preserve State
- Working with Cookies in ASP.NET Code
- Limitations of Using Cookies
- ASP.NET Session State
- Problems in Classic ASP
- The Session Object
- Storing Objects in Session State
- Storing ADO.NET Objects in Session
- Session State Object Storage
- Configuring Session State
- Editing Configuration Files
- Session State Options
- Setting Up an Out-of-Process State Server
- Ensuring that Your Data is Serializable
- Testing StateServer Session State
- Storing Session State in SQL Server
- Configuring SQL Server Session State
- Testing SQL Server Session State
- Using Cookieless Session IDs
- Application State
- Limitations of Application State

## MANAGING USERS WITH ASP.NET'S MEMBERSHIP

### FEATURES

- Introduction to Membership and Roles
- Introducing Membership Management in ASP.NET
- Introducing Role Management
- The Security Services Stack
- Data Has to Go Somewhere
- Configuring Members and Roles
- Modifying Provider Behavior
- Working with Roles
- Authentication and Cookies
- Using Membership Controls
- LoginStatus Control
- Login Control
- LoginView Control
- LoginName Control
- ChangePassword Control
- PasswordRecovery Control
- CreateUserWizard Control
- Writing Code to Interact with Membership and Roles

- The Membership and MembershipUsers Classes
- The Roles Class
- Creating Custom Providers
- Setting up the XML Provider

## CONFIGURATION

- Configuration Overview
- Navigating the Configuration File Hierarchy
- Configuration File Elements
- ASP.NET Configuration Tools
- Configuring Security Features
- Using the Web Site Administration Tool
- The Web Site Administration Tool Graphical User Interface
- Using the Web Site Administration Tool to Create a Custom Error Page
- Programming Configuration Files
- The Configuration APIs
- Storing and Retrieving Connection Strings
- Writing to Configuration Files
- Using External Configuration Files
- Encrypting Configuration Sections
- Protected Configuration Providers
- Encrypting the connectionStrings Section in web.config
- Encrypting External Configuration Files
- Moving Encrypted Configuration Files

## SERVER-SIDE DEBUGGING

- Server-Side Code Debugging in ASP.NET
- Using the Visual Debugger
- Configuring Debugging
- Setting Breakpoints
- Stepping Through Code
- Debugging Exceptions and Handling Errors
- The Exception Assistant
- Redirecting Users
- Debugging Stored Procedures
- Creating a Database Project
- Working with Data Connections
- Debugging Stored Procedures

## CLIENT-SIDE AND ADVANCED DEBUGGING

- Client-Side Code Debugging in ASP.NET
- Debugging Client-Side JavaScript
- Configuring Script Debugging
- Script Debugging
- Debugging Script in Dynamic Resource Files
- Limitations of Breakpoint Mapping
- Custom Data Visualizers
- A Client Data Visualizer
- Building a Custom Visualizer
- The Visualizer Class
- Deploying a Custom Visualizer
- Debugging .NET Framework Source Code
- Configuring .NET Framework Source Code Access
- Exploring the Source Code

## DATA BINDING

- Introducing Data Source Controls
- Introducing Data-Bound Controls
- Reading and Write Data Using the SqlDataSource Control
- Bind a DropDownList Control
- Display Product Information in a DetailsView Control
- Filter Data Based on the DropDownList Value
- Data Source Control Events
- Should You Use the SqlDataSource Control?
- Displaying and Editing Middle-Tier Data using the ObjectDataSource Control
- Displaying XML Data Using the XmlDataSource Control
- Configuring the XmlDataSource Control
- Add the FormView Control

## VALIDATING USER INPUT

- Overview of ASP.NET Validation Controls
- The Validation Controls
- Using the Simple Validators
- Using the RequiredFieldValidator
- Using a RangeValidator to Ensure that Data Falls within a Specified Range
- Using a CompareValidator to Compare Values
- Using the Complex Validators
- Validate General Text with the RegularExpressionValidator
- Create Your Own Validation Using the CustomValidator Control
- Summarizing Results with the ValidationSummary Control
- Display Modes for the ValidationSummary Control
- Separating Validation into Validation Groups]

## CASCADING STYLE SHEETS

- Introducing Cascading Style Sheets
- Advantages of Using Styles
- Converting from Embedded to Linked Style Sheets
- What is CSS, Really?
- Investigating Styles
- Font Attributes
- Color Attributes
- Margins and Alignment
- Positioning
- <DIV> and <SPAN>
- Classes and IDs
- Grouping
- Is That All?
- Using Visual Studio 2008's Tools for Working with Styles
- Split View Editing
- Manages Styles Window
- Using the Style Application Toolbar
- Creating New Styles in the Stylesheet Editor
- Creating New Styles from the Manage Styles Window
- Using the CSS Properties Window

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**Duración:**

35 horas

**Incluye:**

- ❖ Un manual original importado en inglés del curso por participante.
- ❖ Estacionamiento si el curso es en nuestras instalaciones.
- ❖ Descanso con servicio de café, agua, té, refrescos y galletas.

**Formas de pago:**

Para la inscripción a este entrenamiento el pago debe realizarse con anticipación de las siguientes maneras:

1. Depósito en Banamex cuenta 4923239 Suc. 575 a nombre de Desarrollo y Capacitación en Internet, S. A. de C. V. (CLABE en caso de transferencia electrónica vía Internet 002180057549232394)
2. Cheque a nombre de Desarrollo y Capacitación en Internet, S. A. de C. V.

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