

Curso ASP.NET Using Visual Basic 2008

Descripción: En este módulo aprenderás a usar Visual Studio 2008 y Visual Basic 2008 para construir páginas Web ASP.NET 3.5. Entenderás la arquitectura detrás de ASP.NET y cómo utilizar varios controles de ASP.NET. También a crear sitios Web consistentes usando Master Pages, agregar características de membresía, configurar y producir aplicaciones ASP.NET para autenticar usuarios y limitar su acceso a los recursos, manejar el estado y a desplegar y editar datos usando ASP.NET y ADO.NET. Además, aprenderás sobre las nuevas características de ASP.NET 3.5, como son el soporte para LINQ, herramientas CSS, procesos de validación, navegación y técnicas de cacheo que te permitirán mejorar el desempeño de tu aplicación.

Audiencia: Programadores que desean crear desarrollo Web utilizando ASP.NET.

Prerrequisitos: Sólido entendimiento de Visual Studio 2005 o Visual Studio 2008, el .NET Framework 2.0 y Visual Basic.

Contenido

INTRODUCTION TO ASP.NET <ul style="list-style-type: none">• Web Application Fundamentals• Setting up the Web Examples• Creating a Virtual Directory• Home Page for ASP.NET Examples• Benefits of ASP.NET• ASP.NET Example Program• An Echo Program• ASP.NET Features• Compiled Code• Server Controls• Browser Independence• Separation of Code and Content• State Management	ASP.NET CONFIGURATION AND SECURITY FUNDAMENTALS <ul style="list-style-type: none">• One-minute Introduction to XML!• ASP.NET Configuration – Overview• Multi-level Configuration• Configuration Hierarchy• Web Config File Structure• Web.Config Sections• Application Settings• ASP.NET Security – Overview• Role-Based Security and CAS• Types and Steps• Steps in Enabling Role-Based Security• Three Ways to Authenticate• Forms Authentication – Example• Forms Authentication – Default.aspx• Forms Authentication - Web.Config• Features of Forms Authentication• Forms Authentication Classes• Customizing Forms Authentication• Authentication Source• Forms Authentication – Analysis• Windows Authentication• Windows Authentication – Analysis
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WEB FORMS ARCHITECTURE

- Web Forms Architecture
 - Code-Behind Version of Echo
 - Example
 - HelloCodebehind.aspx
 - HelloCodebehind.aspx.vb
 - Page Class
 - Inheriting from Page Class
 - Web Forms Page Life Cycle
 - View State
 - Web Forms Event Model
 - Page Processing
 - Page Events
 - Page Properties
 - Page Directive
 - Tracing
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- Code-Behind in ASP.NET 2.0
 - ASP.NET Code-Behind Example
 - ASP.NET Code-Behind Page

ASP.NET AND HTTP

- Classical Web Programming
- Active Server Pages Object Model
- Request and Response Objects
- Request/Response in ASP.NET
- HttpRequest Class
- Properties of HttpRequest
- Using HttpRequest Class
- HTTP Collections
- HttpResponse Class
- Redirect
- HttpUtility
- Echo Program Example
- Echo.aspx
- EchoBack.aspx
- GET and POST Compared
- QueryString and Forms Collections

- Passport Authentication
- Passport Authentication – Analysis
- Authorization

DEBUGGING, DIAGNOSTICS AND ERROR HANDLING

- ASP.NET Diagnostics
- Debugging Using Visual Studio
- Calculator Example
- Debugging Calculator
- Application – Level Tracing
- Tracing Calculator
- Using the Page Cache
- An ASP.NET Page Without Visual Studio
- Attaching to VS Debugger
- Preparing to Debug
- Trace Messages
- Tracing the Calculator Page
- Conditional Tracing
- Trace Category
- Trace Warning
- Exceptions in Trace
- Errors in ASP.NET
- Uncaught Exception
- Custom Error Pages

MORE SERVER CONTROLS

- ASP.NET 2.0 Control Improvements
- Newer Controls in ASP.NET 2.0
- Master Pages
- Master Pages Demonstration
- Using a Menu Control
- Creating Content Pages
- TreeView Control
- Master Page Application
- Visual Studio 2008 Solutions

ADONET AND LINQ

- ADO.NET
- ADO.NET Architecture
- .NET Data Providers
- ADO.NET Interfaces
- .NET Namespaces
- Connected Data Access
- AcmePub Database
- Creating a Connection
- Using Server Explorer
- Performing Queries
- ADO.NET with ASP.NET
- Web Client Isolation
- Web Client Database Code
- Using Commands
- Creating a Command Object
- Using a Data Reader
- Data Reader: Code Example

WEB APPLICATIONS USING VISUAL STUDIO

- Using Visual Studio
- Visual Web Developer
- Visual Web Developer Demo
- No AutoEventWireup
- AutoEventWireup
- Using Components in ASP.NET
- Compilation Error
- Shadow Copying
- Shadow Copying Demonstration
- Temporary Copy of the Component
- ASP.NET Applications
- Sessions
- Global.asax
- Web Application Life Cycle
- Application Life Cycle Example
- Global.asax
- Log Class
- Sample Log File
- StringStore Class
- Data Binding
- Data Binding Code Example
- Session Data
- Session Using IIS
- Absolute Positioning
- Adding Global.asax File
- XHTML
- XHTML in Visual Studio

STATE MANAGEMENT AND WEB APPLICATIONS

- Session and Application State
- Example Program
- Session Object
- Page_Load
- Session Variables Issues
- Session State and Cookies
- Session State Timeout
- Session State Store
- Application State
- Implementing Application State
- Global.asax
- Users.aspx.vb
- Multithreading Issues
- Bouncing the Web Server
- Cookies
- Cookies and ASP.NET
- HttpCookie Properties
- Example – Exposing Cookies
- Acme Travel Agency Case Study
- State Management Techniques

- Use of Session State
- Generic Collections
- Executing Commands
- Parameterized Queries
- Parameterized Queries Example
- DataSet
- DataSet Architecture
- Why DataSet?
- DataSet Components
- DataAdapter
- Data Set Example Program
- Data Access Class
- Retrieving the Data
- Filling a DataSet
- Accessing a DataSet
- Using a Standalone DataTable
- DataTable Update Example
- Adding a New Row
- Searching and Updating a Row
- Deleting a Row
- Row Versions
- Row State
- Iterating Through DataRows
- Command Builders
- Updating a Database
- Language Integrated Query (LINQ)
- Bridging Objects and Data
- LINQ Demo
- Object Relational Designer
- IntelliSense
- Basic LINQ Query Operators
- Obtaining a Data Source
- Filtering
- Ordering
- Aggregation
- Obtaining Lists and Arrays
- Deferred Execution
- Modifying a Data Source
- Performing Inserts via LINQ to SQL
- Performing Deletes via LINQ to SQL
- Performing Updates via LINQ to SQL

DATA ACCESS IN ASP.NET 3.5

- Data Access In ASP.NET 2.0
- Data Access Demonstration
- Data Entry Demonstration
- SQL Generation Options
- Enable Edit and Delete
- Editing Records
- GridView Control
- DetailsView Control
- Storing the Connection String
- Protecting the Configuration String
- FormView Control
- Master/Detail Web Pages
- Data Binding

SERVER CONTROLS

- Server Controls in ASP.NET
- HTML Server Controls
- Using HTML Server Controls
- HTML vs. Web Forms Server Controls
- Server Control Examples
- HTML Control Examples
- Code for Login
- HTML Controls in Visual Studio
- Using HTML Controls
- Web Controls
- Validation Controls
- Required Field Validation
- Regular Expression Validation
- Rich Controls
- Copying a Web Site
- User Controls
- Using a User Control
- Copyrigh.ascx
- Copyrigh.ascx.vb
- User Control Exmpl

CACHING IN ASP.NET

- Introduction
- What is Caching?
- Need for Caching (Why Cache?)
- Data to be Cached – Time Frame
- ASP vs. ASP.NET Response Model
- Caching in ASP.NET
- Three Types of Caching in ASP.NET
- Output Caching
- @ OutputCache Directive
- Simple Output Caching Example
- @ OutputCache – Attributes in Detail
- VaryByParam in Detail
- HttpCachePolicy Class
- HttpCachePolicy Class – Example
- Page Fragment Caching
- Common Mistakes in Using Fragment
- Caching
- Fragment Caching Example
- Data Caching or Application Caching
- Add an Item to Cache Object
- Insert and Add Methods
- Application Caching – Example
- Expiration
- Problems in Caching

- Template Editing
- Using XML Data
- Example Program
- XML Data Source Demo
- Multiple-Tier Data Access
- Object Data Source
- Data Access in ASP.NET 3.5
- ListView Demonstration
- Configuring the ListView
- ListView Edit
- DataPager Control
- LinqDataSource Control

PERSONALIZATION AND SECURITY

- Themes
- Control Skins
- Sample Skin File
- Applying Themes
- Example of Themes
- Security in ASP.NET 2.0
- ASP.NET Membership
- Login Controls
- Web Site Administration Tool
- Access Rules
- Login Control Demo
- Running the Membership Demo
- Profiles Properties
- Profiles Demonstration
- Using ASP.NET Profiles Properties

HTTP PIPELINE

- Web Applications
- ASP.NET Request Processing
- ASP.NET Architecture with IIS 5.0
- Pipeline Processing
- Pipeline Architecture
- Customizing the HTTP Pipeline
- Customizing Applications
- Customizing a Welcome Application
- Logger Class
- Custom Handlers
- IHttpHandler Interface
- Custom Handler Example
- Custom Handler Configuration
- Custom Handler Demonstration
- Entry in Configuration File
- Extension Mapping in IIS
- .ashx Files
- string.ashx
- Custom Modules
- Example: DemoModule
- Using DemoModule

Duración aproximada:

35 horas

Incluye:

Manual importado en inglés del curso, estacionamiento y servicio de cafetería.

IMPORTANTE:

- ❖ El material que se entrega está en inglés técnico.

Software a Utilizar:

- ❖ Visual Studio 2008
- ❖ IIS Server
- ❖ SQL Server 2008
- ❖ ASP.NET 3.5, ADO.NET 2.0

Formas y condiciones de pago:

Para la inscripción, aplicación de los descuentos y aseguramiento de que el curso se impartirá en las fechas pactadas se requiere el pago anticipado 2 semanas antes de la fecha de inicio con depósito o transferencia bancaria a la siguiente cuenta:

- ❖ Depósito Banamex cuenta 4923239 Suc. 575 a nombre de Desarrollo y Capacitación en Internet, S.A. de C. V. o transferencia bancaria CLABE 002180057549232394
- ❖ Cheque nombre de Desarrollo y Capacitación en Internet, S. A. de C.V.

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