

Curso Web Services Using C# and ASP.NET

Descripción: Este curso proporciona una comprensión realista y práctica del desarrollo de Web services usando ASP.NET y C#. Los servicios Web son una evolución de una serie de estándares que permiten a los programadores en diferentes computadoras comunicarse de manera transparente con otros programas en otras computadoras similares o diferentes vía Internet. Este modulo te enseña a detalle las habilidades que necesitas para programar Web services usando ASP.NET. También examina los fundamentos de SOAP y lo esencial de WSDL para crear Web services interoperables. El curso utiliza .NET 3.5 y Visual Studio 2008, y cubre características nuevas como WS-I Basic Profile 1.1, SOAP 1.2 y patrones de eventos para llamar Web services de manera asíncrona. También incluye una introducción a Windows Communication Foundation (WCF), el framework de Microsoft para crear aplicaciones distribuidas.

Audience: Programadores que necesitan integrar Web Services.

Prerrequisitos: Conocimiento del .NET Framework usando C# y conocimiento de XML. También se recomienda experiencia en ASP.NET.

Contenido

1. What Are Web Services?

What is a Web Service?
Why are Web Services Needed?
Distributed Object Computing
Major Players in Web Services
Web Services Interoperability
Benefits of Web Service Integration
SOAP
UDDI
Web Services Business Models
Business Models Classified
Service Oriented Architecture (SOA)
Services Are Independent
ASP.NET Web Services
Alternative Technologies
Web Service Enhancements 3.0
Windows Communication Framework

2. Web Services Fundamentals

Understanding Web Services
Internet Information Services
Internet Services Manager
Virtual Directory
Anonymous Access
IIS Applications
An Echo Web Service
Echo Web Service Using ASP.NET
SOAP Request
Testing the Web Service
HTTP POST Request
Hypertext Transfer Protocol (HTTP)
HTTP Headers and Content
HTTP Methods
XML
SOAP-Based Web Services
Messaging Models
Messaging Over the Web
The SOAP Messaging Model
SOAP Namespaces
The SOAP Envelope
The Message Header
Header Entry Attributes
The Message Body
Service Descriptions
Web Services Description Language
Viewing WSDL
Using WSDL
wsdl.exe in .NET SDK

3. Developing ASP.NET Web Services

Developing Web Services in Visual Studio 2008

Code for a Simple Web Service

Hello World Web Service

Concatenate Web Service

WebService Directive
Service.vb

System.Web.Services Namespace

WebService Attribute

WebMethod Attribute

BufferResponse

MessageName

Basic Profile

Turning Off Conformance Checking

WS-I Basic Profile

ASP.NET Configuration

Multi-level Configuration

Configuration Hierarchy

WebService Class

4. Web Service Clients

Protocols

Accessing a Web Service

Creating a Proxy

Creating a Proxy using wsdl.exe

Exploring the Generated Proxy Code

Console Client Test Program

Creating a Proxy via Visual Studio

5. ASP.NET Web Services Programming Model

Asynchronous Programming in Web Services

Begin and End Asynchronous Methods

Using a Callback Delegate

Asynchronous Events in .NET 2.0

State Management in ASP.NET

Application and Session Objects

Session Management

Application Management

ASP.NET Web Services Transactions

Caching: An Overview

Data to be Cached – Time Frame

Output Caching

Debugging

Debugging a Web Service

Enable Debugging in Web.config

Deploying a Web Service

6. XML Serialization

Serialization in .NET

CLR Serialization

Circular List and XML Serialization

XML Serialization Infrastructure

What Will Not Be Serialized

XML Schema

XSD Tool

The XML Designer

A More Complex Schema

A Car Dealership

Deserializing According to a Schema

Type Infidelity

Customizing XML Serialization

XML Serialization and Web Services

7. More About SOAP

The SOAP Messaging Model
SOAP Namespaces
The SOAP Envelope
The Message Header
Using SOAP Headers in .NET
Using SOAP Headers on the Client
Call Body
Response Body
Returning Errors
Document Style Web Services
Document vs. RPC Style
Wrapped vs. Bare Style
Literal vs. Encoded Use
SOAP 1.2
Specifying the Transport Protocols
Making a Request Using SOAP 1.2

8. More About WSDL

SOAP-Based Web Services
Component-Based Software
Component Models
Web Services as Components
A World without Type Information
The Need for Service Description
An IDL for Web Services
Web Services Description Language
WSDL Namespaces
The WSDL Description Model
A Bird's Eye View
WSDL Descriptors as Schema
The Schema for WSDL Descriptors
Associations between Components
Interface Description
Messaging Scenarios
Operations: Input, Output, and Fault
Messages
Service Description
Extending WSDL
The Binding Component
A Structural Pattern
The SOAP Binding
Document vs. RPC Style
Encoded vs. Literal Use
Using WSDL Files
An Abstract Class
Implementing the Web Service
WSDL First!
WSDL Support in .NET
WSDL Viewer Tool
WSDL Viewer Source Code

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9. Data Access with Web Services

Multiple-Project Solutions
A Windows Application Client Project
Adding a Web Reference
Multiple Projects in Solution Explorer
Implementing a Client Proxy
Multiple-Tier Data Access
A Data Access Web Service
An Enhanced Web Service
Client for Enhanced Web Service
Objects in a ListBox
Web Services Pass Data
LocalCourse
Client Code
Type Information in Web Services
Type Information as XML Schema
Typed DataSets in Web Services
Adding a Typed DataSet
Returning a Typed DataTable
Binding to a Web Service
Troubleshooting Tip

10. Introduction to WCF

What is WCF?
WCF Services
Service Orientation
WCF and Web Services
WCF = ABC
Address, Binding, Contract
Hosting Services
A Website for the Service
Service Configuration
Configuration Details
Examining the Service in the Browser
WCF Clients
Creating WCF Clients
Add Service Reference Dialog
Interop with ASMX Web Services
EchoService20
EchoServiceASMX
.Net 2.0 Client
EchoService
EchoClient35 Code
Data Contract
Operation Contract
Client Program
Deploying a WCF Web Service

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Incluye:

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

Duración: 30 horas

Formas de pago:

Para la inscripción a este entrenamiento el pago debe realizarse con anticipación de una semana 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.
- 3.- Tarjetas de crédito, Visa, Masterd Card, American Express.

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