TECNOLOGIA MICROSOFT

Track Microsoft.Net

Incluye dos cursos:

Curso 1: 2541: Core Data Access with Microsoft Visual Studio 2005
Curso 2: 2543: Core Web Application Technologies with Microsoft Visual Studio 2005

DURACION: 48 Hrs.

2541: Core Data Access with Microsoft Visual Studio 2005

ACERCA DE ESTE CURSO
Fundamentos de tecnologías de aplicaciones web y aplicaciones distribuidas con Microsoft Visual Studio 2005

OBJETIVOS:

- Permitir el conocimiento del uso de Visual Studio 2005.
- Comprensión de la estructura del .NET FrameWork 2.0.
- Entendimiento sobre la programación y publicación de sitios web.
- Comprensión del acceso, manejo y despliegue de datos.
- Construcción de un cliente y un servidor remoto.
- Construcción y consumo de XML WebServices simples.
- Creación y consumo de componentes de servicios.

DIRIGIDO A:
Dirigido a desarrolladores con conocimientos básicos en herramientas de desarrollo de tecnología Microsoft, desarrolladores principiantes, maestros, alumnos y pasantes de carreras afines con la programación web.

REQUISITOS DE LOS ASISTENTES

- Contar con fundamentos básicos de HTML
- Conocimientos básicos de JScript
- Fundamentos de publicación web
- Conocer el sistema operativo Windows XP
- Conocimiento de estructura de datos y SQL Server 7 ó posterior (recomendable)

TEMARIO

Unit 1: Connecting to Databases and Reading Data

a) Overview
b) What Is ADO.NET?
c) The Process for Connecting to a Database and Reading Data
d) What Is Connection Pooling?
e) Lab Scenario
f) Lab Tasks and Objectives
g) Lab: Connecting to Databases and Reading Data
h) Lab Discussion

Unit 2: Querying and Updating Databases by Using Commands

a) Overview
b) ADO.NET Commands
c) The Process for Passing Parameters into Commands
d) Lab Scenario
e) Lab Tasks and Objectives
f) Lab: Querying and Updating Databases by Using Commands
g) Lab Discussion

Unit 3: Performing Transactional Operations

a) Overview
b) What Is a Transaction?
c) The Process for Managing Local Transactions
d) The Process for Managing Distributed Transactions
e) Isolation Levels
f) Lab Scenario
g) Lab Tasks and Objectives
h) Lab: Performing Transactional Operations
i) Lab Discussion

Unit 4: Performing Disconnected Operations Programmatically

a) Overview
b) What Is the ADO.NET Disconnected Model?
c) The Process for Loading and Saving Data in a DataSet
d) What Are DataViews?
e) Lab Scenario
f) Lab Tasks and Objectives
g) Lab: Performing Disconnected Operations Programmatically
h) Lab Discussion

Unit 5: Performing Disconnected Operations by Using Visual Studio 2005 Wizards

a) Overview
b) Comparing Untyped Datasets with Typed Datasets
c) What Are Table Adapters?
d) Demonstration: Creating a Typed Dataset by Using Visual Studio 2005 Wizards
e) Lab Scenario
f) Lab Tasks and Objectives
g) Lab: Performing Disconnected Operations by Using Visual Studio 2005
h) Wizards
i) Lab Discussion

Unit 6: Performing XML Operations on Disconnected Data

a) Overview
b) XML Representation of Datasets
c) What Are DiffGrams
d) Lab Scenario
e) Lab Tasks and Objectives
f) Lab: Performing XML Operations on Disconnected Data
g) Lab Discussion

Unit 7: Reading and Writing XML Data

a) Overview
b) The Process for Serially Reading XML Data
c) The Process for Serially Writing XML Data
d) Lab Scenario
e) Lab Tasks and Objectives
f) Lab: Reading and Writing XML Data
g) Lab Discussion

Unit 8: Processing XML Data by Using DOM

a) Overview
b) What Is DOM?
c) What Are DOM Trees?
d) Types of XML Nodes in a DOM Tree
e) Lab Scenario
f) Lab Tasks and Objectives
g) Lab: Processing XML Data by Using DOM
h) Lab Discussion
i) Workshop Evaluation

2543: Core Web Application Technologies with Microsoft Visual Studio 2005

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Unit 1: Creating a Web Application

a) Overview
b) Visual Studio Web Site Types
c) Default Event Handling in Web Applications
d) Web Configuration Files
e) Lab Scenario
f) Lab Tasks and Objectives
g) Lab: Creating a Web Application
h) Lab Discussion

Unit 2: Programming a Web Application

a) Overview
b) Event Handling in Web Applications
c) Browser Capability Detection
d) Page Header Retrieval
e) Page-Level and Application-Level Error Handling
f) Lab Scenario
g) Lab Tasks and Objectives
h) Lab: Programming a Web Application
i) Lab Discussion

Unit 3: Adding and Configuring Server Controls

a) Overview
b) HTML Controls and Web Server Controls
c) Types of Web Server Controls
d) Working with Web Server Controls
e) The ASP.NET 2.0 Page Postback Model
f) Lab Scenario
g) Lab Tasks and Objectives
h) Lab: Adding and Configuring Server Controls
i) Lab Discussion

Unit 4: Creating a Common Layout by Using Master Pages

a) Overview
b) What Are Master Pages?
c) What Are Content Pages?
d) Nested Master Pages
e) Lab Scenario
f) Lab Tasks and Objectives
g) Lab: Creating a Common Layout by Using Master Pages
h) Lab Discussion

Unit 5: Managing State for a Web Application

a) Overview
b) ViewState Properties and ControlState Data
c) Application and Session Objects
d) Strategies for Managing Session State Data
e) The Cache Object
f) Lab Scenario
g) Lab Tasks and Objectives
h) Lab: Managing State for a Web Application
i) Lab Discussion

Unit 6: Accessing and Displaying Data

a) Overview
b) Database Connections and the Web.Config File
c) Relational Data and Data Source Controls
d) XML Data and Data Source Controls
e) Object Data and Data Source Controls
f) Lab Scenario
g) Lab Tasks and Objectives
h) Lab: Accessing and Displaying Data
i) Lab Discussion

Unit 7: Controlling Access to a Web Application

a) Overview
b) Authentication for Web Applications
c) Authorization for Web Applications
d) Site Membership Systems Using the Membership Class
e) Web Site Security Administration Using the Roles Class
f) Lab Scenario
g) Lab Tasks and Objectives
h) Lab: Controlling Access to a Web Application
i) Lab Discussion

Unit 8: Deploying a Web Application

a) Overview
b) The Copy Web Site Utility
c) The Publish Web Site Utility
d) Windows Installer Setup Packages
e) Lab Scenario
f) Lab Tasks and Objectives
g) Lab: Deploying a Web Application
h) Lab Discussion

Unit 9: Making Web Applications Available to Mobile Devices

a) Overview
b) Device Emulators for Mobile Web Forms
c) Mobile Device Detection and Redirection
d) Mobile Web Forms
e) Device-Specific Features in Mobile Web Forms
f) Lab Scenario
g) Lab Tasks and Objectives
h) Lab: Making Web Applications Available to Mobile Devices
i) Lab Discussion
j) Workshop Evaluation

NOTA: Curso es totalmente en español