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**silicon
beach**
TRAINING

ADO.NET

Duration: 2 days

Prerequisites

For this ADO.NET training course a knowledge of programming with a high level language and initial knowledge of Visual Basic .NET framework is required

This ADO.NET training course is designed to enable developers to use the toolset provided with Visual Basic.NET for data access including ADO.NET objects, data controls, designers and interoperability with earlier ADO objects.

Objectives

After this ADO.NET training course, delegates will:

- Learn how to retrieve and manipulate data using Microsoft's new ADO.NET library
- Understand how to work with the new ADO.NET object model, including the DataReader, DataAdapter, and DataSet
- See how to apply constraints and relationships to disconnected data
- Learn how to update data, including how to handle stored procedures, parameters, and return values
- Understand how to search, sort, and filter data
- See how to leverage the power of XML
- Learn valuable techniques for building both Web and Windows applications

Course Content

Introducing ADO.NET

- Traditional Data Access Architecture
- ADO.NET Disconnected Data Access Architecture
- Different components of ADO.NET

A review of basic SQL queries

- SQL SELECT Statement
- SQL INSERT Statement
- SQL UPDATE Statement
- SQL DELETE Statement

Performing common data access tasks with ADO.NET

- Accessing Data using ADO.NET
- Defining the connection string
- Defining a Connection
- Defining the command or command string
- Defining the Data Adapter
- Creating and filling the DataSet

continued...

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Related Courses

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VB.Net: 2 days

C# & .Net: 5 days

PHP: 2 days

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A Demonstration Application

- The Interface
- Loading the table
- Filling the controls on the Form
- Navigating through the records

Updating Data

- Steps for updating the table
- Building the Application
- Loading the table and displaying data in the form's controls
- Initialising Commands
- Adding Parameters to the commands
- The ToggleControls() method of our application
- Editing (or Updating) Records
- Event Handler for the Save Button
- Event Handler for the Cancel Button
- Inserting Records
- Deleting a Record

Using Stored Procedures

- Sample Stored Procedures
- UPDATE Stored Procedure
- INSERT Stored Procedure
- DELETE Stored Procedure
- SELECT Stored Procedure
- Using Stored Procedures with ADO.NET
- The modified InitializeCommands() method
- The modified Load Table button's event handler

Using Data Grid Control to View .NET data

- A Demonstration Application for Data Grid Control
- Second Demonstration - Using multiple related tables

Data Access in a Connected Environment

- Retrieving data using the SELECT command
- Updating Records using INSERT, UPDATE and DELETE commands

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