

70-564 - Pro: Designing and Developing ASP.NET Applications Using the Microsoft .NET Framework 3.5 (VB)

Course Introduction

2m

Course Introduction

Chapter 01 - ASP.NET Overview

3hrs 41m

ASP.NET Overview

ASP.NET Architecture

Pages

Page Compile

Library

Development

IIS Architecture

IIS Authentication

IIS Handler Mappings

ASP.NET Projects and Templates

Demo - ASP.NET Projects and Templates

ASP.NET Folders and Files

Code Locations

Demo - Code Locations

ASP.NET Page

Page and User Control Directives

Demo - ASP.NET Page

Page Life Cycle

Page and Control Life Cycle Events

Postback Mechanism

View State and Control State

Page.IsPostBack Property

Demo - Page Life Cycle and Page Postbacks

Server Controls

HTML Controls

Standard Controls

Data Controls

Demo - Server Controls

Intrinsic Objects

Demo - Intrinsic Objects

Remote Methods

Demo - Calling Remote Methods

Generic Handlers

Demo - Generic Handlers

ASP.NET Providers

Page Redirection

Demo - Page Redirection

Asynchronous Pages

Asynchronous Pages - Code Example

Demo - Asynchronous Pages

Chapter 01 Review

Chapter 02 - Page Validation

33m

Page Validation
Page Validation Concepts
Flow
Types
RequiredFieldValidator
CompareValidator
RangeValidator
RegularExpressionValidator
CustomValidator
Page.IsValid Property
ValidationSummary Concepts
ValidationSummary Code
ValidationGroup Property
Demo - Validation Controls
Chapter 02 Review

Chapter 03 - Look and Feel

1hr 33m

Look and Feel
Master Pages and Content Pages
Demo - Master Pages and Content Pages
Nested Master Pages
Demo - Nested Master Pages
Accessing Master Page Content
Demo - Accessing Master Page Content
Strongly Typed Master Pages
Demo - Strongly Typed Master Pages
Dynamic Master Pages
Demo - Dynamic Master Pages
Themes, Skins, CSS, Resources
Demo - Themes, Skins, CSS, Resources
Accessing Form Elements
Demo - Accessing Form Elements
Accessing Page Headers
Demo - Accessing Page Headers
Dynamically Loading User Controls
Demo - Dynamically Loading User Controls
Profile Properties
Demo - Profile Properties
Web Parts
Demo - Web Parts
Chapter 03 Review

Chapter 04 - Site Navigation

1hr 40m

Site Navigation
Navigation Architecture
XmlSiteMapProvider
SiteMapDataSource
Demo - Navigation Architecture
TreeView
Menu
Demo - TreeView and Menu
SiteMapPath
Demo - SiteMapPath
Linking Site Map Files – Code Part 1

Linking Site Map Files – Code Part 2
Linking Site Map Files – Code Part 3
Demo - Linking Site Map Files
Selecting Site Map Files
Demo - Selecting Site Map Files
Security Trimming
Demo - Security Trimming
Site Map Localization
Localization Example
Demo - Site Map Localization
Custom Site Map Provider Concepts
Custom Site Map Provider – Code Part 1
Custom Site Map Provider – Code Part 2
Demo - Custom Site Map Provider
Site Map Manipulation
Demo - Site Map Manipulation
Chapter 04 Review

Chapter 05 - Data Binding

31m

Data Binding
Data Binding Syntax
Data Binding Syntax - Code Part 1
Data Bound Controls
Data Binding Syntax – Code Part 2
Data Binding Syntax - Code Part 3
Eval and Bind
Data Binding Syntax - Code Part 4
XML Data
Data Binding Syntax - Code Part 5
Result
Demo - Data Binding Syntax
Data Sources
Demo - Data Sources
Data Bound Controls Cont.
DataGrid
DataList
Repeater
ListView
GridView
FormView
DetailsView
TreeView
Chapter 05 Review

Chapter 06 - ADO.NET and XML Data

1hr 10m

ADO.NET and XML Data
ADO.NET Architecture
Object Model
Two Alternatives
SqlConnection Object
SqlCommand Object
Connected Data Access
Connected Data Access - Code Example
Connected Data Access – IE Example
Demo - Connected Data Access
Disconnected Data Access

Fill Method
Disconnected Data Access - Code Example
Disconnected Data Access – IE Example
Demo - Disconnected Data Access
Data Server Controls
Steps
List Control DataSet Binding
Demo - List Control DataSet Binding
GridView and SqlDataSource
GridView and SqlDataSource – IE Example
Demo - GridView and SqlDataSource
Table Relationships
Table Relationship Creation
Table Relationship Navigation
Table Relationships – IE Example
Demo - Table Relationships
LINQ
Demo - LINQ
DataSet Objects and XML
Demo - DataSet Objects and XML
XML Web Server Control
Demo - XML Web Server Control
Chapter 06 Review

Chapter 07 - Tracing and Debugging

49m

Tracing and Debugging
Exception Handling
Demo - Exception Handling
Debugging
Demo - Debugging
Tracing
Enabling
Output
Result
Trace Attribute vs. Trace Element
Tracing in Components
Demo - Tracing
Event Logging
Demo - Event Logging
Client-Side Debugging
Demo - Client-Side Debugging
Chapter 07 Review

Chapter 08 - Managing State

50m

Managing State
State Concepts
Application State
Demo - Application State
Session State
Storage Options
Demo - Session State
View State vs. Control State
View State
Demo - View State and Control State
Cookies
Demo - Cookies

Query Strings
Demo - Query Strings
Cookieless Sessions
Demo - Cookieless Sessions
Output Caching
Demo - Output Caching
Data Caching
Data Caching - Code Example
Demo - Data Caching
Chapter 08 Review

Chapter 09 - Configuration and Deployment

38m

Configuration and Deployment
Configuration Files
Hierarchy
Content
Demo - Configuration Files
Configuring Sections
Retrieving Data from Web.config
Demo - Retrieving Data from Web.config
Encrypted Configuration Sections
Options
Demo - Encrypted Configuration Sections
Web Application Deployment
Updates
Compiling
GAC
Demo - Web Application Deployment
Custom Configuration Sections
Demo - Custom Configuration Sections
Chapter 09 Review

Chapter 10 - Globalization and Accessibility

35m

Globalization and Accessibility
Resource Files
Globalizing and Localizing Applications
Localizing Applications
Demo - Globalizing and Localizing Applications
Accessibility
Chapter 10 Review

Chapter 11 - Custom Controls

34m

Custom Controls
Types of Custom Controls
User Controls
Creating a User Control
Adding User Control to Web Form
Demo - User Controls
Derived Controls
Demo - Derived Controls
Full Custom Controls
Features
Demo - Full Custom Controls
Templated Controls
Demo - Templated Controls
Chapter 11 Review

Chapter 12 - Security

27m

Security

Authentication vs. Authorization

ASP.NET Authentication Methods

Advantages and Disadvantages

IIS Authentication Methods

Windows-Based Authentication

Windows-Based Authentication Steps

Demo - Windows-Based Authentication

Accessing Authenticated User Info

Demo - Accessing Authenticated User Info

Forms-Based Authentication

Forms-Based Authentication Steps

Demo - Forms-Based Authentication

Configuring Security and Membership

Demo - Configuring Security and Membership

Secure Sockets Layer

Chapter 12 Review

Chapter 13 - ASP.NET AJAX

24m

ASP.NET AJAX

ASP.NET AJAX Concepts

AJAX Characteristics

AJAX Features

ASP.NET AJAX Architecture

ASP.NET AJAX Client and Server

Creating an ASP.NET AJAX Application

ASP.NET AJAX Server Controls

Partial Page Updates

Demo - Partial Page Updates

JavaScript Programming

JavaScript Debugging

Demo - JavaScript Programming and Debugging

Chapter 13 Review

Chapter 14 - Mobile Devices

33m

Mobile Devices

Device Capabilities Variations

Device Adapters

Mobile Web Pages and Controls

Mobile Device Emulators

Demo - Mobile Web Pages and Controls

Mobile Device Detection/Redirection

Demo - Mobile Device Detection/Redirection

Device Capabilities Detection

Demo - Device Capabilities Detection

Device-Specific Rendering

Devices Code Example

Filters Code Example
Demo - Device-Specific Rendering
Custom Mobile Web Controls
Demo - Custom Mobile Controls
Chapter 14 Review
Course Closure

Total Duration: 14 hrs 2 min