



7. Microsoft Training

7.2 ASP.NET

Prerequisites:

1. C/C++/C#

Duration: 60 Lectures

Course Content:

1. Introduction

- 1.1. From ASP to ASP.NET
- 1.2. Web Forms
- 1.3. Web Services
- 1.4. ASP.NET Features

2. Web Forms Architecture

- 2.1. Page Class
- 2.2. Web Forms Life Cycle
- 2.3. Web Forms Event Model
- 2.4. Code-Behind

3. ASP.NET and HTTP

- 3.1. Request/Response Programming
- 3.2. HttpRequest Class
- 3.3. HTTP Collections
- 3.4. HttpResponse Class
- 3.5. Redirection
- 3.6. HttpUtility Class

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4. Web Applications Using Visual Studio

- 4.1. Using Visual Web Developer
- 4.2. Visual Studio Forms Designer
- 4.3. Using Components
- 4.4. Shadow Copying
- 4.5. Using the Global.asax File
- 4.6. Data Binding

5. State Management and Web Applications

- 5.1. Session State
- 5.2. Application State
- 5.3. Multithreading Issues
- 5.4. Cookies

6. Server Controls

- 6.1. HTML Server Controls
- 6.2. Web Forms Server Controls
- 6.3. Rich Controls
- 6.4. Validation Controls
- 6.5. User Controls

7. Caching in ASP.NET

- 7.1. What Is Caching
- 7.2. Page-Level Caching
- 7.3. Page Fragment Caching
- 7.4. Optimizing Your ASP.NET Application
- 7.5. Application Caching

8. ASP.NET Configuration and Security Fundamentals

- 8.1. Configuration Overview
- 8.2. Authentication and Authorization
- 8.3. Forms Authentication



8.4. Windows Authentication

8.5. Security and ASP.NET

9. Debugging, Diagnostics and Error Handling

9.1. Debugging

9.2. Application Tracing

9.3. Page Tracing

9.4. Error Handling

10. More Server Controls

10.1. Most recent ASP.NET Controls

10.2. Menus

10.3. Master Pages

11. ADO.NET and LINQ

11.1. ADO.NET Overview

11.2. .NET Data Providers

11.3. Connections

11.4. Commands

11.5. DataReaders and Connected Access

11.6. Data Sets and Disconnected Access

11.7. Language Integrated Query

12. Data Access in ASP.NET

12.1. Data Source Controls

12.2. Connection String Storage

12.3. GridView

12.4. DetailsView

12.5. FormView

12.6. Object Data Sources

12.7. ListView

12.8. DataPager



12.9. LinqDataSource

13. Personalization and Security

13.1. Configuration Overview

13.2. Themes

13.3. Skins

13.4. Security in ASP.NET

13.5. Membership and Roles

13.6. Login Controls

13.7. User Profiles

14. Introduction to ASP.NET AJAX

14.1. Rich Client Applications

14.2. AJAX

14.3. ScriptManager

14.4. UpdatePanel

14.5. AJAX Client Library

14.6. Remote Method Calls

14.7. AJAX Control Toolkit

15. HTTP Pipeline

15.1. Pipeline Architecture

15.2. Context

15.3. Applications

15.4. Handlers

15.5. Modules

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