



Microsoft SharePoint 2007 for Developers

Course Summary

Description

Microsoft SharePoint 2007 provides a huge range of functionality including enterprise content management, automation of business processes, and business intelligence and reporting. Although SharePoint is rich in features and capabilities, it involves common concepts and developer tasks that are universal to every type of SharePoint project. This course is designed to provide those who are responsible for customizing and creating new functionality within the platform mastery of these common tasks, including: customization of look and feel through styles, themes, and master pages, controls and web parts, custom pages, creation and deployment of solutions, security, debugging, workflows, custom site definitions, lists, documents libraries, and features. Students who master the contents of this course will possess the knowledge to productively contribute on most types of SharePoint implementation because they will understand the tasks and building blocks required in all types of custom solutions.

- Introduction to SharePoint Development
- Site Columns and Content Types
- Extending Lists with Office 2007
- Authentication and Authorization
- Forms Based Authentication and Anonymous Access
- SharePoint Architecture
- Features
- Solution Development
- Category List Example
- List Templates and Site Definitions
- Styles and Themes
- Master Pages
- Programming Fundamentals
- Creating User Controls and Web Parts
- Advanced List Concepts
- Custom Workflows

Prerequisites

This course is designed for individuals with a working understanding of ASP.NET 2.0 and Visual Studio 2005 tools.

Duration

Five days



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Course Outline

I. Introduction to SharePoint Development

- A. Modes of Development: Configuration, Customization and Solution Development
- B. Site Collections and Sites
- C. Creating and Customizing Lists and Libraries
- D. Using Web Part Pages

II. Site Columns and Content Types

- A. Site Columns
- B. Content Types
- C. Integrating Site Columns, Content Types, and Lists
- D. Using Calendar and Contacts Lists with Outlook 2007

III. Extending Lists with Office 2007

- A. SharePoint Designer Workflows
- B. Reporting with Access 2007
- C. Word 2007 Mail Merges

IV. Authentication and Authorization

- A. Authentication Mechanisms
- B. Authorization and Permissions
- C. Zones

V. Forms Based Authentication and Anonymous Access

- A. Using ASPNetSQLMembershipProvider and ASPNetSQLRoleProvider
- B. Configuring Anonymous Access
- C. Creating a Custom Membership Provider

VI. SharePoint Architecture

- A. IIS, ASP.Net, and SharePoint
- B. Page Request Pipeline
- C. What Happens When a New Web Application is Created
- D. SPVirtualPathProvider and SPPageParserFilter
- E. Code Access Security

VII. Features

- A. Types of Features
- B. Feature Scopes
- C. Feature Activation, Dependencies, and Stapling
- D. Feature Receivers



VIII. Solution Development

- A. Creating a Development Environment
- B. Creating and Deploying Solutions
- C. Common Failure Modes
- D. Tools and Techniques to Simplify Package and Deployment

IX. Category List Example

- A. Provisioning a List with a Feature
- B. Creating a Lookup Site Column with a Feature Receiver
- C. Automating Solution Deployment

X. List Templates and Site Definitions

- A. Deriving Custom List Templates from Existing Templates
- B. Understanding Site Definitions
- C. Creating Custom Site Definitions

XI. Styles and Themes

- A. Style Basics
- B. Associating Styles with Pages
- C. Using and Creating Themes

XII. Master Pages

- A. ASP.Net Master Page Basics
- B. Master Pages in SharePoint
- C. Creating a Custom Master Page

XIII. Programming Fundamentals

- A. The Microsoft.SharePoint Namespace
- B. Deploying Controls
- C. Elevation of Privileges
- D. Debugging Assemblies

XIV. Creating User Controls and Web Parts

- A. User Controls
- B. Web Parts
- C. Delegate Controls

XV. Advanced List Concepts

- A. Manipulating Lists and List Items Programmatically
- B. Lists and Cross-site queries
- C. Events
- D. Custom Field Types
- E. Custom Workflows



XVI. Comparison to SharePoint Designer Workflows

- A. Workflow basics
- B. Association, Initiation, and Modification Forms
- C. Debugging Workflows