

# SharePoint 2007 for Developers

Length of Class: 5 Days

## Overview

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.

## Prerequisites

Six months experience in using Visual Studio (2005 or 2008) to create .NET software (specifically ASP.NET applications).

- Familiarization with XML and schemas.
- Some knowledge of scripting (either VBScript or javascript).
- Some knowledge of HTML, styles, themes and stylesheets.

## Outline

### Modes of Development: Configuration, Customization and Solution Development

- Site Collections and Sites
- Creating and Customizing Lists and Libraries
- Using Web Part Pages
- Site Columns and Content Types

### Site Columns

- Content Types
- Integrating Site Columns, Content Types, and Lists
- Using Calendar and Contacts Lists with Outlook 2007
- Extending Lists with Office 2007

### SharePoint Designer Workflows

- Reporting with Access 2007
- Word 2007 Mail Merges
- Authentication and Authorization

### Authentication Mechanisms

- Authorization and Permissions
- Zones
- Forms Based Authentication and Anonymous Access



### Using ASPNetSQLMembershipProvider and ASPNetSQLRoleProvider

- Configuring Anonymous Access
- Creating a Custom Membership Provider
- SharePoint Architecture

### IIS, ASP.Net, and SharePoint

- Page Request Pipeline
- What Happens When a New Web Application is Created
- SPVirtualPathProvider and SPPageParserFilter
- Features

### Types of Features

- Feature Scopes
- Feature Activation, Dependencies, and Stapling
- Feature Receivers
- Solution Development

### Creating a Development Environment

- Creating and Deploying Solutions
- Common Failure Modes
- Tools and Techniques to Simplify Package and Deployment
- Tagged Document List Example

### Provisioning a List with a Feature

- Creating a Lookup Site Column with a Feature Receiver
- Automating Solution Deployment
- Creating Custom List Definitions
- Site Definitions

### Understanding Site Definitions

- Creating Custom Site Definitions
- Specify Site Elements and Features Using Onet.xml
- Styles and Themes

### Style Basics

- Associating Styles with Pages
- Using and Creating Themes
- Master Pages

### ASP.NET Master Page Basics

- Master Pages in SharePoint
- Creating a Custom Master Page
- Programming Fundamentals

### The Microsoft.SharePoint Namespace

- Deploying Controls
- Elevation of Privileges
- Debugging Assemblies
- Code Access Security
- Creating User Controls and Web Parts



### **User Controls**

- Web Parts
- Delegate Controls
- Advanced List Concepts

### **Manipulating Lists and List Items Programmatically**

- Lists and Cross-site queries
- Events
- Custom Field Types
- Custom Workflows

### **Comparison to SharePoint Designer Workflows**

- Workflow basics
- ASP.NET Based Association, Initiation, and Modification Forms
- Debugging Workflows
- Custom Task Content Types and Forms

