

Introduction to Development Using Windows SharePoint Services 3.0 (Mindsharp)

Course Code: MS50046 Two days; Instructor-Led

About this Course

This in-depth, two-day, instructor-led course provides students with the knowledge of using Windows SharePoint Services 3.0 to create reusable and modular Web sites for use in intranet, extranet, or Internet scenarios. Students will learn how to manage access to information stored within a SharePoint environment, how to perform common object model tasks, and how to create Web parts to customize user interfaces. Participants will also learn how to use Web services for data requests transactions, how to create and deploy event receivers, and how to utilize Windows Workflow Foundation.

Course Outline

Module 1: SharePoint Primer: Overview and Enhancements from Earlier Versions

This module introduces Windows SharePoint Services 3.0 by providing an overview of the product architecture and core system features from a developer perspective. This module focuses on the key components of the Windows SharePoint Services 3.0 platform, and also provides a high-level introduction to functionality, which is discussed in greater detail later in this course.

Lessons

- Windows SharePoint Services 3.0 Architecture
- Key Elements in Windows SharePoint Services 3.0
- New Features in Windows SharePoint Services 3.0
- New Features in Office SharePoint Server

After completing this module, students will be able to:

- Discuss the Windows SharePoint Services 3.0 architecture.
- Understand the key elements in Windows SharePoint Services 3.0, such as site collections, Webs, lists, and Web Parts.
- Understand the new Windows SharePoint Services 3.0 features, such as galleries, master pages, site columns, content types, and workflow.

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- Understand the new features available only through Microsoft Office SharePoint Server 2007.
- Extend an existing Web application with the ASP.NET 2.0 pluggable authentication.
- Configure user access to a Windows SharePoint Services 3.0 environment.
- Configure user permissions.
- Implement security by using Users/Groups, SharePoint objects, and permission levels.

Module 2: Authentication and Authorization

This module explains both authentication and authorization, starting with a comparison of the two and the improvements in Windows SharePoint Services 3.0. It also investigates the various authentication models provided by Microsoft Internet Information Server (IIS): Windows integrated, basic, digest, Microsoft .NET Passport, and anonymous authentication. The latter half of this module introduces the concepts required to manage the security of a SharePoint environment, and shows how to coordinate the many security settings to be as granular as required, yet also have the power to make global security changes to the SharePoint environment. Finally, this module covers ASP.NET 2.0 pluggable authentication, which supports membership and developer-defined role providers.

Lessons

- Background
- IIS Built-In Authentication
- ASP.NET 2.0 Pluggable Authentication
- Windows SharePoint Services Authorization
- Advanced Authorization

Lab : Configure Multiple Authentication Providers in C#

- Exercise 1: Extend Existing Web Application
- Exercise 2: Prepare Membership Provider
- Exercise 3: Modify Web.Config
- Exercise 4: Establish Central Administration Settings
- Exercise 5: Test Dual Authentication

Lab : Configure Multiple Authentication Providers in Visual Basic

- Exercise 1: Extend Existing Web Application
- Exercise 2: Prepare Membership Provider
- Exercise 3: Modify Web.Config
- Exercise 4: Establish Central Administration Settings
- Exercise 5: Test Dual Authentication

After completing this module, students will be able to:

- Extend an existing Web application with the ASP.NET 2.0 pluggable authentication.
- Configure user access to a Windows SharePoint Services 3.0 environment.
- Configure user permissions.
- Implement security with Users/Groups, SharePoint objects, and permission levels.

Module 3: Fundamentals of the Object Model and Web Parts

This module introduces the Windows SharePoint Services 3.0 object model by providing an overview of the common namespaces and classes. It also demonstrates how to perform common object model tasks by providing the basics necessary for creating solutions. The second half of this module focuses on custom components called Web Parts.

Lessons

- Overview of ASP.NET 2.0 and Windows SharePoint Services 3.0 Object Model
- Windows SharePoint Services 3.0 Web Part Infrastructure
- Page and Web Part Life Cycles
- Custom Web Part Development
- Visual Studio Extensions for Windows SharePoint Services 3.0
- 10 Steps to Creating Custom Web Parts

Lab : Create a Web Part Using VSeWSS in C#

- Exercise 1: Create a Custom Web Part Using VSeWSS
- Exercise 2: Modify a Custom Web Part Using VSeWSS
- Exercise 3: Sharpen the Logic and Rendering of the Web Part

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Lab : Create a Web Part Using VSeWSS in Visual Basic

- Exercise 1: Create a Custom Web Part Using VSeWSS
- Exercise 2: Modify a Custom Web Part Using VSeWSS
- Exercise 3: Sharpen the Logic and Rendering of the Web Part

After completing this module, students will be able to:

- Discuss the Windows SharePoint Services 3.0 object model.
- Understand the ASP.NET 2.0 and Windows SharePoint Services 3.0 Web Part infrastructure.
- Understand the SharePoint Page and Web Part life cycles.
- Define a Web Part development process.
- Use the Visual Studio Extensions for Windows SharePoint Services Framework to build a custom Web Part.

Module 4: Web Services

This module explains the benefits of loose coupling and discusses simple Web service scenarios and requirements of service virtualization. It also covers Web service management and the benefits of the Microsoft Web Services Enhancements 3.0. Finally, this module looks at the SharePoint Web services in detail and how core SharePoint functionality has been exposed in Windows applications, in Web applications, and inside SharePoint.

Lessons

- Advantages and Limitations of Web Services Orientation in Windows SharePoint Services
- Introduction to Web Services Provided in Windows SharePoint Services 3.0
- Windows SharePoint Services 3.0 Web Services in Development Projects

Lab : C# Coding with Lists.aspx Web Service

- Exercise 1: Build the Windows Client Application
- Exercise 2: Add Controls to the Form
- Exercise 3: Add the Code Behind
- Exercise 4: Run the Application

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Lab : Visual Basic Coding with Lists.aspx Web Service

- Exercise 1: Build the Windows client application
- Exercise 2: Add Controls to the Form
- Exercise 3: Add the Code Behind
- Exercise 4: Run the Application

After completing this module, students will be able to:

- Understand the advantages and limitations of Web service orientation in SharePoint technologies.
- Discuss Web services provided in Windows SharePoint Services 3.0.
- Use Windows SharePoint Services 3.0 Web services in development projects.
- Create an application that uses SharePoint's Web services to extend SharePoint functionality.

Module 5: Events

This module explains when to use event receivers to accomplish specific tasks within Windows SharePoint Services 3.0 and provides an introduction to the new architecture of event receivers within Windows SharePoint Services 3.0. It also covers the various SharePoint objects that support event receivers and explains the steps needed to create a basic event receiver in Visual Studio.

Lessons

- Event Receiver Basics
- SharePoint Objects that Support Event Receivers
- Steps to Create an Event Receiver
- Deploying Event Receivers

Lab : Creating and Deploying a Preprocess Web Event Receiver in C#

- Exercise 1: Create Event Receiver
- Exercise 2: Building and Deploying Event Receiver
- Exercise 3: Activate Event Receiver through Object Model
- Exercise 4: Test Event Receiver

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Lab : Creating and Deploying a Preprocess Web Event Receiver in Visual Basic

- Exercise 1: Event Receiver Creation
- Exercise 2: Building and Deploying Event Receiver
- Exercise 3: Activate Event Receiver through Object Model
- Exercise 4: Test Event Receiver

After completing this module, students will be able to:

- Understand the basics about when to use event receivers versus when to use workflows.
- List the types of SharePoint objects that support event receivers.
- Create a basic event receiver.
- Deploy an event receiver.

Module 6: Workflow

This module explains the Windows Workflow Foundation technology and how it exists inside Windows SharePoint Services 3.0. It also covers how to use SharePoint Designer 2007 to build a workflow on your Windows SharePoint Services 3.0 site.

Lessons

- Implementation in Windows SharePoint Services 3.0
- Create Workflows with SharePoint Designer 2007

Lab : Creating a Workflow Using SharePoint Designer

- Exercise 1: Author Bug Testing Workflow
- Exercise 2: Set Up Conditions and Actions
- Exercise 3: Process Bug Test Result
- Exercise 4: Create Instance of Submission Approval Workflow
- Exercise 5: Review Workflow Objects Created in SharePoint Designer

After completing this module, students will be able to:

- Discuss the basics of Windows Workflow Foundation, and how they fit into Windows SharePoint Services 3.0.
- Understand how to leverage this technology in Windows SharePoint Services 3.0.
- Build a workflow in SharePoint Designer.

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