



To register or for more information call our office **(208) 898-9036** or email register@leapfoxlearning.com

Microsoft

MS-SP501 Advanced Topics for SharePoint Application Development

Duration:

Traditional Instructor Led Learning -5.00 Day(s)

Software Assurance Vouchers Accepted



Overview

This five day deep-dive for experienced SharePoint developers will guide students through the process of architecting and developing SharePoint applications and customizations. Get everything you need to be a top-notch SharePoint 2007 Developer. From AJAX to Event Handlers and Features, you will gain important insight into the internal workings of SharePoint 2007.

Prerequisites

- 4995 -Programming with Microsoft .NET Framework using Microsoft Visual Studio 2005
- 2541/2542 - Advanced Data Access with Visual Studio 2005
- 2543Q - Essential ASP.NET 2.0 Web Programming with MegaLab
- 6438 - Implementing and Administering SharePoint Services 3.0
- MCTSMOSS - MCTS: Microsoft Office SharePoint Server 2007 Configuration Boot Camp

Course Outline

Module 1: Course Overview

This module explains how the class will be structured and introduces course materials and additional administrative information.

Lessons

- Introduction
- Course Materials
- Facilities
- Prerequisites
- What We'll Be Discussing

Lab 1: Setup

- Set Up Web Applications for Lab Use

Module 2: Custom Authentication

This module explains ASP.NET providers, how to create a single sign-on, and how to configure a SharePoint Web Application.

Lessons

- Overview
- SharePoint = ASP.NET Application
- ASP.NET Providers
- Microsoft Single Sign-On
- Demonstration: Custom Authentication

Lab 1: Custom Authentication

- Create a Username/Password Database
- Create a User
- Configure .NET Config File
- Configure a SharePoint Web Application to Use Forms Authentication with Custom Provider

Lab 2: Single Sign-On

- Configure a Single Sign-On
- Program a Single Sign-On

After completing this module, students will be able to:

- Configure a Microsoft Single Sign-On
- Configure a SharePoint Web Application

Module 3: SharePoint Permissions

This module explains the permissions in Microsoft Windows Server Systems (WSS) and how they have been enhanced, explains how to set permissions at an item level, and describes naming conventions.

Lessons

- Overview
- IIS Application Pools
- SharePoint Windows Groups
- SharePoint Default Groups
- ASP.NET Membership/Role Provider
- Assignable Entities
- Custom Permission Levels
- Permissions
- Site/List/Item Permission Inheritance
- Security Trimmed Interface
- Web Application Policy
- SPSecurity Class
- Single Sign-On
- Demonstration: SharePoint Permissions

Lab 1: SharePoint Permissions

- SharePoint Default Groups
- Membership Users
- Custom Permission Sets
- Site/List/Item Permission Inheritance

- Web Application Policy

After completing this module, students will be able to:

- Set permissions at an item level
- Use the Membership/Role provider feature of ASP.NET 2.0.

Module 4: Advanced SharePoint Designer

This module explains reports, data views, data sources, and how to back up and restore a Web site.

Lessons

- Overview
- Built-In Reports
- Data Views
- Data Sources
- Backup Web Site
- Restore Web Site
- Demonstration: Advanced SharePoint Designer

Lab 1: Advanced SharePoint Designer

- Reports
- Data Views
- Data Sources
- Backup a Site
- Restore a Site

After completing this module, students will be able to:

- Run reports for quick data mining of the sites
- Backup and restore a site

Module 5: Web Services API

This module explains web services API and some common SharePoint Web Services that are available.

Lessons

- Overview
- Web Service APIs
- Why Use Web Services
- Common SharePoint Web Services

Demonstration: Finding and Using SharePoint Web Services

Lab 1: Web Service API

- Find Web Service
- Add Web Service Reference
- Use the Web Service

After completing this module, students will be able to:

- Use web services to integrate your applications with SharePoint

Module 6: Object Model

This module explains object model DLLs and how to use the object model.

Lessons

- Object Model Overview
- Object Model DLLs
- Using the Object Model
- SPSite vs. SPWeb
- Namespace Changes (2.0 to 3.0)
- Demonstration: Object Model

Lab 1: Object Model

- Object Model DLLs
- Using the Object Model

After completing this module, students will be able to:

- Build applications that extend functionality
- Create tools to automate common administrative functions
- Allow other .NET applications to integrate with SharePoint

Module 7: SharePoint Events / Timer Jobs

This module explains how to create new events in SharePoint.

Lessons

- Overview
- SharePoint Event Handler History
- New Events
- More Event Details
- SharePoint Timer Service
- SP JobDefinition Class

Lab 1: SharePoint Events

- Create an Event
- Assign an Event to a List
- Assign an Event to a Site

Lab 2: SharePoint Timer Jobs

- Create a Timer Job

After completing this module, students will be able to:

- Add event receivers to objects (lists and sites)
- Understand the object model
- Include event receivers on SharePoint sites

Module 8: Shared Services

This module explains the features of the shared services.

Lessons

- Overview
- Shared Services Features
- Life without Shared Services Features
- Life with Shared Services Features

Lab 1: Setup Shared Services

- Setup Shared Services

After completing this module, students will be able to:

- Add extra functionality with Shared Services

Module 9: SharePoint/Microsoft FrontPage RPC

This module explains how to use FrontPage RPC and SharePoint RPC.

Lessons

- Overview
- FrontPage RPC
- SharePoint RPC

Lab 1: SharePoint RPC

- Call a Simple SharePoint RPC Method

After completing this module, students will be able to:

- Use RPC methods do the work

Module 10: Excel Services

This module explains how to use Excel Services.

Lessons

- Overview
- Excel Services Trusted Locations
- Excel Services Web Parts
- Excel Services Object Model/Web Services

Lab 1: Excel Services

- Create and Upload an Excel File
- Add a Trusted Location
- Configure Excel Web Parts

After completing this module, students will be able to:

- Use Excel Services to centralize Excel files
- Prevent “bad” Excel files from being uploaded by using trusted locations

Module 11: Business Data Catalog

This module explains Business Data Catalogs.

Lessons

- Overview
- Application Definition Files
- Business Data Catalog Web Parts
- Business Data Catalog Indexing
- Business Data Catalog with Single Sign-On

Lab 1: Business Data Catalog

- Install a BDC Application
- Setup BDC Web Parts
- Create a List that Uses BDC Data

After completing this module, students will be able to:

- Using BDC to gain access to important data in a backend system
- Use BDC data to populate list data

Module 12: Business Intelligence

This module explains how to use the report center, KPIs, dashboards, and Reporting Services Integration.

Lessons

- Overview
- Report Center
- Key Performance Indicator (KPI)
- Dashboards
- Reporting Services Integration

Lab 1: Business Intelligence

- Integrate SQL Server Reporting Services
- Create a Report
- Use the Reporting Services Web Part

After completing this module, students will be able to:

- Use the Report Center as the main portal to reports and business data

- Utilize KPIs for quick and easy decision making
- Integrate Reporting Services seamlessly with SharePoint sites

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