

Advanced SharePoint Development Course Summary

Description

This course provides students with the knowledge and skills to become a top-notch Microsoft SharePoint 2007 Developer. From AJAX to Event Handlers and Features, you will gain important insight into the internal workings of SharePoint 2007.

Objectives At the end of this course, students will be able to:

- Create a SharePoint site that is customized and personalized to the end user
- Create and run reports
- Create custom field types to enhance functionality of lists

Topics

- Course Overview
- Custom Authentication
- SharePoint Permissions
- In-Browser Customization
- Basic SharePoint Designer
- Advanced SharePoint Designer
- Content Types
- Site Definitions
- Features
- Web Services API
- Web Part Development
- Client Side Scripts / AJAX
- Object Model
- Custom Field Types
- SharePoint Events / Timer Jobs
- Shared Services
- Workflows (SP Designer)
- Workflows (Visual Studio)
- ASP.NET Localization
- SharePoint/Microsoft FrontPage RPC
- Excel Services
- Business Data Catalog
- Business Intelligence
- Upgrading WSS 2.0 to 3.0

Audience

This course is intended for experienced SharePoint developers and students and will guide them through the process of architecting and developing SharePoint applications and customizations.

Prerequisites

Before attending this course, should have taken the following or have equivalent experience:

- Programming with the Microsoft .NET Framework Using Microsoft Visual Studio 2005
- Advanced Data Access with Visual Studio 2005
- Core Web Application Technologies with Visual Studio 2005
- Implementing Windows SharePoint Services 3.0
- Implementing Microsoft Office SharePoint Server 2007

Duration

Five days

Advanced SharePoint Development Course Outline

I. Course Overview

- A. Introduction
- B. Course Materials
- C. Facilities
- D. Prerequisites
- E. What We'll Be Discussing

II. Custom Authentication

- A. Overview
- B. SharePoint = ASP.NET Application
- C. ASP.NET Providers
- D. Microsoft Single Sign-On
- E. Demonstration: Custom Authentication

III. SharePoint Permissions

- A. Overview
- B. IIS Application Pools
- C. SharePoint Windows Groups
- D. SharePoint Default Groups
- E. ASP.NET Membership/Role Provider
- F. Assignable Entities
- G. Custom Permission Levels
- H. Permissions
- I. Site/List/Item Permission Inheritance
- J. Security Trimmed Interface
- K. Web Application Policy
- L. SPSecurity Class
- M. Single Sign-On
- N. Demonstration: SharePoint Permissions

IV. In-Browser Customization

- A. Overview
- B. SharePoint UI Overview
- C. Default.aspx
- D. Everything Is a List
- E. Using Web Parts
- F. Customization Web Parts
- G. Adding New Pages
- H. Editing New Pages
- I. Master Pages
- J. Themes
- K. Navigation
- L. Demonstration: In-Browser Customizations
- M. Page Layouts

N. Content Types

- O. Content Management Server (CMS)

V. Basic SharePoint Designer

- A. Overview
- B. SharePoint Designer Basics
- C. Creating/Modifying Existing Sites
- D. Exploring Team Sites
- E. Exploring Portal Sites
- F. Demonstration: SharePoint Designer
- G. ASP.NET Pages
- H. SharePoint Designer Editing Features
- I. Demonstration: SharePoint Designer
- J. Creating Master Pages
- K. Demonstration: SharePoint Designer
- L. Using SharePoint Controls
- M. Demonstration: SharePoint Designer
- N. Creating CSS Style Sheets
- O. Demonstration: SharePoint Designer

VI. Advanced SharePoint Designer

- A. Overview
- B. Built-In Reports
- C. Data Views
- D. Data Sources
- E. Backup Web Site
- F. Restore Web Site
- G. Demonstration: Advanced SharePoint Designer

VII. Content Types

- A. Overview
- B. Content Types Introduction
- C. Built-In Content Types/ Inheritance
- D. Content Type Settings
- E. Site/Content Type Columns
- F. Document Information Panel
- G. Workflows
- H. Custom Content Types
- I. Demonstration: Content Types

VIII. Site Definitions

- A. WSS Built-In Site Definitions
- B. MOSS Built-In Site Definitions
- C. CAML

Advanced SharePoint Development Course Outline (cont'd)

- D. Custom Site Definitions
- E. Site Definition Elements
- F. Site Definition Configuration Element
- G. SharePoint Solution Generator
- H. SharePoint Templates
- I. SharePoint Themes
- J. Demonstration: Site Definitions

IX. Features

- A. Features Overview
- B. Types of Features
- C. Feature Scopes
- D. Feature Dependencies
- E. Feature Localization
- F. Feature Event Receivers
- G. Creating Features
- H. Deploying Features
- I. Activating/Deactivating Features
- J. Solutions
- K. Demonstration: Features

X. Web Services API

- A. Overview
- B. Web Service APIs
- C. Why Use Web Services
- D. Common SharePoint Web Services
- E. Demonstration: Finding and Using SharePoint Web Services

XI. Web Part Development

- A. Overview
- B. Web Parts
- C. WSS 2.0 vs. WSS 3.0 Web Parts
- D. ASP.NET Web Part Class
- E. Web Part Connections
- F. Web Part Connections (Interfaces)
- G. Upgrading your Web Parts to WSS 3.0
- H. When to use SharePoint Web Part Class
- I. Web Part Permissions
- J. Code Access Security (CAS)
- K. Web Part Performance Hints
- L. Demonstration: WebParts

XII. Client Side Scripts / AJAX

- A. Overview
- B. Client Side Scripts

- C. Emitting Client Side Scripts
- D. AJAX Introduction
- E. Common AJAX Uses
- F. SharePoint AJAX Support
- G. Demonstration: Client Side Scripts

XIII. Object Model

- A. Object Model Overview
- B. Object Model DLLs
- C. Using the Object Model
- D. SPSite vs. SPWeb
- E. Namespace Changes (2.0 to 3.0)
- F. Demonstration: Object Model

XIV. Custom Field Types

- A. Overview
- B. Field Types Introduction
- C. Built-In Field Types
- D. Custom Field Types
- E. Demonstration: Custom Field Types

XV. SharePoint Events / Timer Jobs

- A. Overview
- B. SharePoint Event Handler History
- C. New Events
- D. More Event Details
- E. SharePoint Timer Service
- F. SP JobDefinition Class

XVI. Shared Services

- A. Overview
- B. Shared Services Features
- C. Life without Shared Services Features
- D. Life with Shared Services Features

XVII. Workflows (SP Designer)

- A. Overview
- B. Built-In WSS/MOSS Workflows
- C. SharePoint Designer Conditions
- D. SharePoint Designer Actions
- E. Extending SharePoint Designer Workflow
- F. Demonstration: SharePoint Designer Workflows

**Advanced SharePoint Development
Course Outline (cont'd)**

XVIII. Workflows (Visual Studio)

- A. Overview
- B. Windows Workflow Foundation
- C. Workflow Persistence
- D. Workflow Types
- E. Workflows with Visual Studio
- F. SharePoint Workflows
- G. SharePoint Workflows Forms
- H. Debugging a Workflow
- I. Comparison of Visual Studio vs. SharePoint Designer
- J. Demonstration: Workflows (Visual Studio)

XIX. ASP.NET Localization

- A. Overview
- B. ASP.NET Localization
- C. Culture and UICulture
- D. RESX Files
- E. Implicit vs. Explicit
- F. SharePoint Resource Files
- G. Browser Language
- H. SharePoint Language Packs
- I. Demonstration: ASP.NET Localization
- J. Module 20: SharePoint/Microsoft FrontPage RPC
- K. Overview
- L. FrontPage RPC
- M. SharePoint RPC

XX. Excel Services

- A. Overview
- B. Excel Services Trusted Locations
- C. Excel Services Web Parts
- D. Excel Services Object Model/Web Services

XXI. Business Data Catalog

- A. Overview
- B. Application Definition Files\
- C. Business Data Catalog Web Parts
- D. Business Data Catalog Indexing
- E. Business Data Catalog with Single Sign-On

XXII. Business Intelligence

- A. Overview
- B. Report Center
- C. Key Performance Indicator (KPI)
- D. Dashboards
- E. Reporting Services Integration

XXIII. Upgrading WSS 2.0 to 3.0

- A. Overview
- B. Prescan.exe
- C. In-Place Upgrade
- D. Side-By-Side/ Gradual Upgrade
- E. Side-By-Side/Gradual Upgrade Steps
- F. Database Migration Upgrade
- G. Upgrading Site Definitions
- H. Migration Issues