Microsoft - Advanced SharePoint Development

Code:	50064
Length:	5 days
URL:	View Online

This course will guide students through the process of architecting and developing SharePoint applications and customizations.

Skills Gained

- Lean to extend many of the core features that WSS provides! These include event handlers, site definitions, features, solutions and web parts!

Who Can Benefit

This course is intended for anyone looking to develop SharePoint customizations at a core level. This includes event handlers, features, site definitions, web parts, timer jobs and workflows!

Prerequisites

- Lean to extend many of the core features that WSS provides! These include event handlers, site definitions, features, solutions and web parts!

Course Details

Outline

Module 1: Overview

Lessons

- N/A

Lab 1: SiteDefinitions

- Create One of Each WSS/MOSS Site Definition

After completing this module, students will be able to:
Module 2: Custom Authentication

Lessons

- Debugging SharePoint

- ASP.NET Providers
- Single Sign On

Lab 1: CustomAuthentication

- Change the default Authentication Method of SharePoint to use a custom MembershipProvider (ASP.NET 2.0)

Lab 2: SingleSignOn

- Learn how to Configure Single Sign On
- Program web parts to use Single Sign On

Lab 3: DebuggingSharePoint

- Learn to Debug SharePoint via Log Files
- Learn to Debug Via Visual Studio
- Log to the SharePoint log File

After completing this module, students will be able to:
Module 3: SharePoint Permissions

Lessons

- SharePoint Security

Lab 1: SharePointPermissions

- Learn to Add Users
- Understand SharePoint Default Groups
- Understand Security Trimmed Interface
- Create New Groups
- Create Custom Permission Level
- Explore Site/List/Item Permission Inheritance
- Web Application Zones

Lab 2: SecurityTrimmedInterface

- Use the SharePoint SPSecurityTrimmedControl to hide content and controls

Lab 3: SPSecurity

- Write code to elevate privileges

After completing this module, students will be able to:
Module 4: In Browser SharePoint Customization
This module explains how to name, declare, assign values to, and use variables. It also describes how to store data in an array. (e.g. This module explains how to install, upgrade and migrate to Windows 7. It also describes the key features, editions, and hardware requirements of Windows 7)

Lessons

- Web Content Management
- In-Browser Customization

Lab 1: InBrowserSharePointCustomization

- Add/Move/Configure Web Parts
- Add a Page View Web Part
- Add a Content Editor Web Part
- Add a Content Query Web Part
- Create new Web/Web Part Pages
- Create a Master Page
- Applying a Master Page
- Create/Apply custom CSS
- Apply custom Theme
- Enable Versioning and Content Approval

Lab 2: InBrowserSharePointCustomization

- Modify Site Navigation
- Modify Quick Launch Navigation
- Regional Settings
- Create a Content Query Web Part
- Create a new Page Layout
- Create a new Page using a Page Layout

After completing this module, students will be able to:
Module 5: Basic SharePoint Designe

Lessons

- Basic SharePoint Designer

Lab 1: BasicSharePointDesigner

- Open An Existing SharePoint Site
- Create A New SharePoint Site
- Explore SharePoint Folders (Team Site)
- Explore SharePoint Folders (Portal Site)
- Create ASP.NET Page
- Modify a built-in CSS Style Sheet
- Create/Attach a CSS style sheet
- Create/Attach/Detach a Master Page

Lab 2: SharePointDesigner

- Check-In/Check-Out
- Add Web Parts
- Add Web Part Zone
- Adding Images (_images directory)
- Reset to Site Definition

Lab 3: BasicSharePointDesigner

- Enable PageParserPaths

After completing this module, students will be able to:
Module 6: Advanced SharePoint Designer

Lessons

- Backup & Restore
- Reports
- Data Views

Lab 1: AdvancedSharePointDesigner

- Explore Built In Reports
- Create/Manage Data Views
- Create/Manage Data Sources
- Merge Two Data Sources
- Link Two Data Sources
- Data View Parameters

Lab 2: AdvancedSharePointDesigner

- Backup a Site
- Restore a Site

After completing this module, students will be able to:
Module 7: Content Types

Lessons

- Content Types

Lab 1: ContentTypes

- Explore Content Types
- Create A New Content Type
- Document Information Panels
- Default Workflows
- Adding Content Types To Lists (Document Library)

Lab 2: ContentTypes

- Content Type Inheritance

After completing this module, students will be able to:
Module 8: Custom Site Definitions

Lessons

- Site Definitions

Lab 1: CustomSiteDefinitions

- Create a new Site Definition (Manually)
- Create a new Site Definition (Visual Studio)

Lab 2: CustomSiteDefinitions

- SharePoint Solution Generator (list definitions)
- SharePoint Solution Generator (site definitions)

Lab 3: Themes

- Learn to create your own theme

Lab 4: Templates

- Create a List Template
- Create a Site Template
- Create a Site from the new Site Template
- Create a List from the new List Template

Lab 5: MS40

- Install Microsoft 40 Templates

After completing this module, students will be able to:
Module 9: Features

Lessons

- Features

Lab 1: Features

- Learn to create a Feature.xml file
- Use the Feature.xml file to point to a custom user control
- Implement Feature Dependencies
- Various Feature Types (List, Module, Content Type)
- Feature Stapling

Lab 2: Features

- Utilize the Visual Studio Extensions for WSS 3.0 to build Features!

Lab 3: Solutions

- Create several features and package them as a solution file (.wsp)

After completing this module, students will be able to:
Module 10: Object Model

Lessons

- Object Model

Lab 1: ObjectModel

- Learn how to create a new ASP.NET Application on the SharePoint Server
- Learn how to work with the Windows SharePoint Services Object Model
- Replace servername with the name of the server

Lab 2: SharePointWebDevelopment

- Adding Application Pages (Bin and Gac deployment) [_layouts]
- Adding Site Pages [content database]

After completing this module, students will be able to:
Module 11: Web Services

Lessons

- Web Services

Lab 1: WebServicesAPI

- Learn to find SharePoint Web Service
- Add reference to SharePoint Web Service
- Program to several of the Web Service Interfaces

Lab 2: WebServicesAPI

- Create a custom web service in ISAPI

After completing this module, students will be able to:
Module 12: SharePoint RPC

Lessons

- RPC Protocols

Lab 1: SharePointRPC

- Utilize SharePoint RPC

After completing this module, students will be able to:
Module 13: Web Parts

Lessons

- Web Parts

Lab 1: WebParts

- Learn how to create a basic web part
- Learn how to deploy a web part manually in the development environment
- Learn how to create web parts that interface with SharePoint Object Model, Databases, and Web Services

Lab 2: WebPartsConnectionsOld

- Create Web Part classes.
- Add child controls to Web Parts.
- Render the HTML for a Web Part.
- Create and display custom properties.
- Implement event handlers.
- Implement control event handler.

Lab 3: WebParts

- Synchronous Vs. Asynchronous Web Parts

Lab 4: FilterWebParts

- Use each of the Filter Web Parts

Lab 5: WebPartsConnectionsNew

- Create ASP.NET Web Part connections

After completing this module, students will be able to:
Module 14: Client Side Scripts AJAX SilverLight

Lessons

- Client Side Scripts

Lab 1: ClientSideScriptsAJAX

- Use AJAX in your web parts!

After completing this module, students will be able to:
Module 15: Custom Field Types

Lessons

- Field Types

Lab 1: CustomFieldTypes

- Create A Custom Field Type (Regular Expression)
- Create A Custom Field Type (User Control)
- Create A Custom Field Type (Cascading Drop Down) - OPTIONAL

After completing this module, students will be able to:
Module 16: SharePointEventsTimerJobs

Lessons

- SharePoint Timer Jobs
- SharePoint Events

Lab 1: SharePointEvents

- Create an Event Handler feature

Lab 2: CustomTimerJob

- Create a custom Timer Job

Lab 3: SharePointEvents_Encrypt

- Create an Event Handler feature that encrypts documents

After completing this module, students will be able to:
Module 17: Shared Services

Lessons

- Shared Services

Lab 1: SharedServices

- Create a Shared Services Provider

Lab 2: SharedServices

- Program to several of the new 2007 MOSS Web Service Interfaces

After completing this module, students will be able to:
Module 18: Workflows With SharePoint Designer

Lessons

- Extending Designer
- WSS/MOSS Workflows
- SharePoint Designer Workflows

Lab 1: MOSSWorkflows

- Create/Use Approval WF
- Create/Use Collect Feedback WF
- Create/Use Collect Signatures WF
- Create/Use Disposition WF
- Create/Use Three-state WF

Lab 2: BuiltInActivities

- Use one of each Built-In Activity

Lab 3: LoopingWorkflow

- Create a looping set of workflows

Lab 4: CustomActivities

- Create a custom workflow activity for SharePoint Designer

Lab 5: CustomConditions

- Create a custom condition for SharePoint Designer

Lab 6: MigrationWorkflow

- Re-associate a Workflow with a new list
- Migrate a workflow to a new site
- Migrate Designer Workflow to Visual Studio

After completing this module, students will be able to:
Module 19: Workflows With VisualStudio

Lessons

- Visual Studio Workflows

Lab 1: CustomWorkflow

- Create a custom workflow using Visual Studio

After completing this module, students will be able to:
Module 20: Localization

Lessons
- Localization

Lab 1: Localization
- How to change the localization of your SharePoint sites

After completing this module, students will be able to:
Module 21: Excel Services

Lessons
- Excel Services

Lab 1: ExcelServices
- Learn to use Excel Services
- Publish to Excel Services
- Configure Excel Services

Lab 2: ExcelServicesWS
After completing this module, students will be able to:
Module 22: Business Data Catalog

Lessons
- Business Data Catalo

Lab 1: BusinessDataCatalog
- Import an application definition file
- Utilize BDC web parts
- Utilize Filter web parts

Lab 2: BDC_SingleSignOn
- Modify BDC to Use Single Sign On

Lab 3: BDCWebServices
- BDC Web Services API

After completing this module, students will be able to:
Module 23: Business Intelligence

Lessons
- Business Intelligence

Lab 1: BusinessIntelligence
- Install the Reporting Services Web Parts
- Configure Reporting Services

- Create a Reporting Services Report
- Configure Reporting Services Web Part

Lab 2: BusinessIntelligence

- Explore Report Center Site Template
- Create a dashboard
- Setup Key Performance Indicators

After completing this module, students will be able to:

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