

Building Collaborative Applications with SharePoint

Course Number:	SP401	Course Length:	4 days	Course Format:	Hands-on training
----------------	-------	----------------	--------	----------------	-------------------

Day 1

1. SharePoint Overview

- The motivation for portals and collaborative applications
- Windows SharePoint Services versus SharePoint Portal Server
- Understanding sites, document workspaces, lists and users
- Creating WSS sites, lists and documents libraries
- Customization and personalization through Web Parts
- Working with SPS Areas and Listings

2. SharePoint Architecture

- Background: Windows Server 2003, IIS6 and ASP.NET
- Understanding the configuration database and content databases
- The relationship between virtual servers, site collections, sites and lists
- The SharePoint ISAPI Filter (STSFLTR.DLL)
- Inclusion Paths and Exclusion Paths
- Direct mode rendering versus safe mode rendering
- How SPS extends the standard WSS databases

3. Understanding Site Templates and Site Definitions

- The fundamentals of site customization
- Customizing lists, document libraries and views
- Using the DataView Web Part for highly-customized formatting
- Working with list templates and site templates
- Understanding site definitions and page ghosting
- Working with WEBTEMP.XML, ONET.XML and SCHEMA.XLM

Day 2

4. The ASP.NET Programming Model

- Deploying ASP.NET applications on a WSS extended virtual server
- Understanding ASP.NET Pages, Handlers, Applications and Modules
- Programming against the HttpContext class
- Creating Web forms with server-side controls
- Creating and using custom controls and user controls
- Creating an ASP.NET Web service

5. Web Parts 1 (building, testing and debugging)

- Compiling, deploying and debugging Web Part DLLs
- Marking Web Parts as safe for execution
- Creating Web Part Description (.DWP) files
- Creating Web Parts with custom properties
- Persisting shared properties versus personalized properties
- Creating Web Parts with custom tool parts

6. Web Parts 2 (rendering, composite controls and deployment)

- Advanced Rendering with the HTMLTextWriter class
- Creating and rendering child controls
- Hooking up event handlers for child controls
- Creating Web Parts that leverage ASP.NET user controls
- Create Web Parts that utilize WSS support for asynchronous processing
- Creating and deploying a Web Part Package using a CAB file
- Installing a Web Part Package using the STSADM.EXE utility

Day 3

7. Web Parts 3 (connecting Web Parts together)

- Motivation for developing connectable Web parts
- Understanding the Provider\Consumer Model
- Implementing and registering WSS connection interfaces
- Overriding methods and raising events to communicate between Web parts
- Code walkthrough using ICellProvider/ICellConsumer
- Code walkthrough using IFilterProvider/IFilterConsumer
- Creating Web Parts with cross-page connections

8. Programming the WSS Object Model

- Using WSS object from Web Part, ASP.NET applications and desktop applications
- Creating administrative applications versus end-user applications
- Creating, managing and archiving SharePoint sites programmatically
- Creating and editing SharePoint lists programmatically
- Managing SharePoint documents programmatically
- ASP.NET Web Forms and FormDigest security

9. Automating Workflow using Document Library Event Handlers

- Enabling document library event handling
- Writing and deploying document library event handlers
- Moving and copying documents in workflow scenarios
- Sending custom email alert notifications to the members or a site
- Creating InfoPath forms to capture user input as XML data
- Automating workflow with InfoPath forms and WSS Forms Libraries

