

Architecting and Planning the Search Capability in Microsoft Office SharePoint Server 2007

Course Code: MS50048 Two days; Instructor-Led

Prerequisites

Before attending this course, students must have:

At least two years working with SharePoint Products and Technologies, in any of the following roles:

- Solution Architect
- Technical Architect
- At least two years practical experience as a lead developer (or provided architectural guidance to lead developers) in development projects for SharePoint Products and Technologies
- Technical expertise in Microsoft Office SharePoint Server 2007
- At least six months combined experience as a technical and solution architect for Microsoft Office SharePoint Server 2007 projects.
- Led consulting engagements that are focused on the search technologies of Microsoft Office SharePoint Server 2007.
- Experience gathering and analyzing customer experience.
- Completed course 5060A: Implementing Windows SharePoint Services 3.0
- Completed course 5061A: Implementing Microsoft Office SharePoint Server 2007

Course Outline

Module 1: Enterprise Search Architecture

This module explains the Enterprise Search Architecture of Microsoft Office SharePoint Server 2007.

Lessons

- Enterprise Search Overview
- Enterprise Search Physical Architecture
- Enterprise Search Architectural Processes
- Information Architecture and Search

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Lab : Enterprise Search Architecture

- Exercise 1: Defining Functional Requirements for Enterprise Search Solutions
- Exercise 2: Identifying Physical Requirements for Enterprise Search Solutions
- Exercise 3: Designing Enterprise Search Schemas

After completing this module, students will be able to:

- Describe the business requirements and goals for enterprise search solutions, and how components in the search technology landscape can be used to achieve those goals and satisfy those requirements.
- Describe the physical architecture of the enterprise search technologies provided by Microsoft Office SharePoint Server 2007.
- Describe the logical architecture of enterprise search technologies in Microsoft Office SharePoint Server 2007 server farms.
- Explain how information architecture and search architecture combine to shape search solutions.

Module 2: Architectural Patterns for Enterprise Search Solutions

This module describes a wide range of typical search scenarios and then investigates architectural patterns that meet the requirements of those scenarios.

Lessons

- Departmental Search
- People Search
- Internet Site Search
- Business Data Search
- Multilingual Search
- Enterprise Search
- Geographically Dispersed Search
- Patterns for Extending Search

After completing this module, students will be able to:

- Describe typical search scenarios.
- Identify appropriate architectural patterns to meet the requirements of typical search scenarios.

Module 3: Performance Tuning and Optimization for Enterprise Search

This module explains how to tune and optimize enterprise search solutions that are based on the Microsoft Office SharePoint Server 2007 platform.

Lessons

- Enterprise Search Physical Characteristics
- Architecting Enterprise Search for Non-Functional Requirements
- Optimizing Enterprise Search Deployment Architectures
- Optimizing Search Relevance

Lab : Performance Tuning and Optimization for Enterprise Search Solutions

- Exercise 1: Monitoring Enterprise Search Performance
- Exercise 2: Defining a Scaling Strategy for Enterprise Search
- Exercise 3: Tuning Relevance

After completing this module, students will be able to:

- Describe enterprise search physical characteristics.
- Architect enterprise search for non-functional requirements.
- Optimize enterprise search deployment architectures.
- Optimize search relevance.

Module 4: Capacity Planning for Enterprise Search Solutions

This module explains how to plan capacity for enterprise search solutions and architectures.

Lessons

- Analyzing Enterprise Corpuses
- Planning for Index Catalog Files
- Planning for Search Databases

Lab : Capacity Planning for Enterprise Search Solutions

- Exercise 1: Analyzing the Enterprise Corpus
- Exercise 2: Planning Capacity for Index Catalog Files
- Exercise 3: Planning Capacity for the Search Databases

After completing this module, students will be able to:

- Analyze enterprise corpuses.
- Plan for index catalog files.
- Plan for search databases.

Module 5: Indexing Enterprise Data

This module explains the architectural issues and guidelines on how to include line-of-business data in enterprise search solutions.

Lessons

- Business Data Catalog Content Sources
- Business Data Catalog Security

Lab : Indexing Enterprise Data

- Exercise 1: Creating Business Data Catalog Applications for Search
- Exercise 2: Indexing Business Data Catalog Application
- Exercise 3: Searching Business Data Catalog Data

After completing this module, students will be able to:

- Describe the architecture of indexing line-of-business data through the Business Data Catalog.
- Explain the architectural issues around Business Data Catalog security for search solutions.

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Module 6: Architecting and Developing Search Solutions

This module explains the architectural issues around customizing, extending and developing search applications that use the core Microsoft Office SharePoint Server 2007 indexing and query services.

Lessons

- Customizing Search Center
- Extending Search Center
- Custom Search Scenarios in SharePoint Sites
- Adding Enterprise Search Capabilities to Non-SharePoint Solutions
- Developing Custom Security Trimmers

Lab : Architecting and Developing Search Solutions

- Exercise 1: Implementing URL-based Queries
- Exercise 2: Creating Query and Result Web Parts
- Exercise 3: Developing with the Query Web Service

After completing this module, students will be able to:

- Customizing Search Center.
- Extending Search Center.
- Creating custom search scenarios in SharePoint sites.
- Adding enterprise search capabilities to non-SharePoint solutions.
- Developing custom security trimmers.