

## SharePoint 2013 Development Course

In this course you will learn Developing, debugging, deploying SharePoint Solutions like Apps, Web Parts, Event Receivers, Timer Jobs, Application pages...etc.

### Course Content

1. Introduction to SharePoint 2013
  - a. Introduction to SharePoint 2013
  - b. History
  - c. What is new in SharePoint 2013
  - d. Improvements from SharePoint 2010
  - e. Architectural Changes
2. SharePoint Installation and Administration
  - a. Hardware and Software Requirements
  - b. Types of Installation
  - c. Configuring SharePoint
3. SharePoint Hierarchy
  - a. Web Application
  - b. Site Collection
  - c. Sub-Site
  - d. List and Libraries
4. Introduction to SharePoint Development
  - a. Server Object Model
  - b. Understanding Farm Solutions
  - c. Understanding Sandbox Solutions
  - d. Solution Packages
  - e. 15 Hive structure
  - f. .wsp files
5. Working with Server Object Model
  - a. Creating Site Collection
  - b. Creating subsite
  - c. Creating list and list items
  - d. Creating List Definition, List Templates, List Instances
  - e. Creating views
  - f. Developing Content Types
6. Developing Web Parts
  - a. What is a Web Part
  - b. Why Web Part
  - c. Types of Web Parts
  - d. Web Part Life Cycle
  - e. Out-of-box Web Parts
  - f. Developing, debugging Traditional Web Parts
  - g. Developing, debugging Visual Web Parts
  - h. Developing, debugging Sandboxed Web Parts

- i. Creating custom Properties in a Web Part
  - j. Difference between Normal and Visual Web Parts
- 7. Features
  - a. Features Overview
  - b. Feature Scope
  - c. Developing Features
  - d. Deploying a Feature
- 8. Event Receivers
  - a. Overview of Event Receivers
  - b. Before events and after events
  - c. Event Receiver Base Classes
  - d. Remote Events
  - e. List,Site, field etc Event Receivers
- 9. Sandboxed Solutions
  - a. What is Sandbox solutions
  - b. Difference between Farm and Sandbox Solutions
  - c. Befinits of Sandbox Solutions
  - d. How to enable sandbox solution in central administration
  - e. Creating a sandbox solution project in visual studio (web part)
  - f. Build, debug and deploy sandbox solution
- 10. Security
  - a. Authentication vs Authorization
  - b. SharePoint Groups
  - c. Creating Custom Groups
  - d. What are permissions and permission Levels
  - e. Creating custom permission level
  - f. Setting up Permissions to user or group programmatically.
  - g. Granting permission to user or user groups
- 11. CAML
  - a. Introduction to CAML
  - b. Writing CAML Queries
- 12. Client Object Model(CSOM)
  - a. Why CSOM
  - b. Improvements in CSOM
  - c. Understanding CSOM and importance
  - d. Using CSOM
    - i. ECMAScripts
    - ii. .NET Managed Code
- 13. REST Services
  - a. Overview
  - b. Why REST
  - c. Consuming REST in SOM and CSOM
- 14. Workflows
  - a. Workflow overview

- b. SharePoint workflows
  - c. Building workflows with Visual Studio (Sequential Workflows)
  - d. Creating workflows in SPD
15. SharePoint Designer
- a. Introduction to SPD
  - b. Changes in SPD
  - c. Creating and Opening site in SPD
  - d. Creating and customizing Lists/Libraries
  - e. Creating workflows in SPD
16. Pages and Navigation
- a. Working with Navigation Menus
  - b. Developing custom ribbon controls
    - i. CommandUIDefinition
    - ii. CommandUIHandler
    - iii. Setting the Location of the Custom Ribbon Control
  - c. Introduction to Pages
    - i. Site Pages and Application Pages
  - d. Developing Application pages in Visual Studio
17. Dynamically Modifying Navigation
- a. Customizing Top Link Bar Programmatically
  - b. Customizing Quick Launch Bar Programmatically
  - c. Customizing Menus and Custom Actions
  - d. Hiding the Left Navigation Programmatically
  - e. Adding Links to the Top Link Bar Programmatically
  - f. Adding Links to the Quick Launch Bar Programmatically
  - g. Deploying and Testing the Custom Navigation Feature
18. Developing User Profiles
- a. Referencing a User Profile
  - b. Referencing and Editing User Profile Properties
  - c. Creating a Web Part to Update and Display User Profile Properties
  - d. Working with the User Profile Service Application
  - e. Activating and Implementing User Profile Web Part
19. InfoPath
- a. InfoPath Overview
  - b. Creating InfoPath Forms and publishing to SharePoint Site
  - c. Customizing a forms in InfoPath
20. PowerShell
- a. Overview
  - b. SharePoint CMDLets
21. Timer Jobs
- a. Overview
  - b. Creating Timer Jobs
  - c. Deploying to a timer job
22. Branding in SharePoint

- a. Introduction to master pages
  - b. Deploying a custom master page to SharePoint using (WSP)
  - c. What is a Delegate Control
  - d. Creating Delegate controls
  - e. Overriding a Delegate control with user control.
23. Developing BCS Application using Visual Studio
- a. Developing usiness Data Connectivity Model in Visual Studio
  - b. Working with the Service Class and Entity Class
  - c. Developing the CRUD Methods with the Design Model
  - d. Debugging the BCS Application in Visual Studio
  - e. Deploying and Testing Our BCS Application
24. Working with Document Objects and Creating Site Definitions
- a. Working with Document Library Programmatically
  - b. SPDocument Library, SPFolder and SPFile Objects
  - c. Programmatically Creating a Document Library
  - d. Turn Off Versioning for a document library dynamically
  - e. Deploying and Testing the Documents Application
  - f. Working with Site Templates
  - g. Site Definitions vs. Site Templates
  - h. Creating a Custom Site Definition to Set the Master Page URL Programmatically
  - i. Deploying and Testing Our Custom Master Page Site Definition
  - j. Creating Sites Based on Our Site Definition
25. Publishing sites
- a. Understanding the publishing features
  - b. Enabling publishing features
  - c. Creating publishing sites
  - d. Cross-site publishing
26. Managed Metadata Services
- a. Overview
  - b. Configuring Managed Metadata Services
  - c. Understanding Managed Metadata
  - d. Creating Term Store, Term Sets
27. Developing Custom Search Interface
- a. Using SPQuery and SPSiteDataQuery
  - b. LINQ to SharePoint
  - c. Keyword Query and Full Text Query
  - d. Creating a Visual Web Part for Search Using CAML
  - e. Creating a Visual Web Part for Search Using LINQ and SPMetal
28. Creating Multilingual Sites
- a. Overview
  - b. Understanding and Installing Language Packs
  - c. Developing Multilingual Sites using Variations
    - i. Creating variation root site
    - ii. Creating variation labels.

## 29. Developing SharePoint Apps

- a. SharePoint APP Model Overview
- b. Introduction to SharePoint Store
- c. SharePoint Hosted Apps
- d. Auto-Hosted Apps
- e. Provider Hosted Aps
- f. Developing and deploying SharePoint Apps

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