



Microsoft SharePoint 2013

Who we are

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Course overview

- Introduction to Microsoft SharePoint 2013
- Programming SharePoint Object Model
- Managing, Designing solutions
- How to develop application in SharePoint 2013
- UI , sites and components
- Develop Managed Metadata Solutions
- Business Connectivity Services
- Automate Business Process with workflows
- Customize enterprise search
- Implement Enterprise Content Management

Pre requisites

The prerequisites for this course include hands-on experience in .NET Framework.

Target audience

Software Professionals, Testing Professionals, Project Managers. Other professionals who are looking forward to acquire solid foundation of designing custom code for SharePoint environments can also opt for this course.

Course Content



Introduction to Microsoft SharePoint 2013

- SharePoint 2013, Enterprise Content Management (ECM)
- Business Process Management (BPM)
- Business Intelligence (BI)
- Enterprise Search
- Enterprise Social Networking
- Share Point Architecture
- Logical Architecture
- Physical Architecture
- Installation of share point 2013
- Developer tools

Programming SharePoint Object Model

- Understand SharePoint Object Hierarchy
- Working with Sites and Webs
- Working with Execution Contexts
- Working with Sites and Webs in Managed Code and Windows PowerShell
- Running Code with Elevated Privileges
- Adapting Content for Different User Permissions
- Interact with lists and libraries Programmatically
- Query and retrieve list data
- Perform operations efficiently on large lists
- Developing Web Parts
- Event Receivers, Timer Jobs, scheduled Operations
- Configuration data for custom components
- Working with SharePoint Designer 2013
- Working with Visual Studio tools



Managing, Designing solutions

- Configuring Features and Solutions,
- Working with Sandboxed Solutions,
- Creating Feature Receiver Classes
- Creating Features with Dependency
- Use JavaScript Client Object Model (CSOM)
- Use the Client-Side Object Model for JavaScript
- Using the REST API with JavaScript
- Add Site Column
- Add the Mileage Claim Content Type
- Add the Claims List, Creating List Relationships & Add Vote Recording
- Display Votes for Each Suggestion
- Use the client-side object model for managed code to interact with a SharePoint deployment.

How to develop application in SharePoint 2013

- Apps Hosting Models
- SharePoint-Hosted Apps
- Provider-Hosted Apps
- Auto Hosted Apps
- Developer tools for Apps
- SharePoint 2013 User Authentication
- Apps Authentication
- Apps Authorization



- Apps Package Structure
- Apps License Framework and Publishing Apps.

UI, Sites and Components

- Using Client-Side User Interface Components
- Customizing the SharePoint List User Interface
- Configuring an App to Display
- Creating a Custom List View
- Creating and Applying Themes
- Tailoring Content to Platforms and Devices
- Configuring and Customizing Navigation
- Creating SharePoint Master Pages
- Building Master Page Functionality
- Publishing and Applying Design Assets
- Creating a Custom Site Map Provider
- Adding Custom Navigation Controls to a Master Page
- Managing SharePoint Sites
- Create a Site & List Definition
- Managing Taxonomy in SharePoint 2013
- Working with Advanced Features of Content Types
- Creating an Event Receiver Assembly
- Registering an Event Receiver with a Site Content Type

Develop Managed Metadata Solutions

- Automate the creation and configuration of managed metadata term sets
- Interact with managed metadata term sets and fields from client-side and server-side code
- Configuring Managed Metadata Term Sets
- Working with Managed Metadata Fields



- Creating and Configuring the Corporate Structure App
- Displaying the Existing Taxonomy Groups
- Creating a Group
- Term Set and Terms
- Obtaining the Host Web
- Adding metadata site columns

Business Connectivity Services

- Creating Farm-Scoped and App-Scoped External Content Types,
- Create and configure BDC models by using SharePoint Designer and Visual Studio.
- Configuring BDC Models for Search,
- Developing Custom Connectivity Components,
- Working with External Events and Notifications,
- Deploying and testing a .NET Connectivity Model,
- Working with Business Data in Composite Solutions,
- Custom Solutions,
- Client Applications,
- Presenting Business Data in an App for SharePoint,
- Work with Business Data in SharePoint workflows,
- Utilize the various APIs available such as CSOM, JSOM.

Automate Business Process with workflows

- Workflow Definition
- Workflow Types - Sequential, State Machine
- Workflow Platforms in SharePoint 2013
- Workflows Core Technologies
- Workflow Architecture in SharePoint 2013
- Workflow Development Tools
- SharePoint Designer 2013
- Visual Studio 2012|2013, Visio 2013, InfoPath 2013
- PowerShell cmdlets
- Workflow Manager Client 1.0
- Creating Workflows in SharePoint 2013



Customize enterprise search

- Construct queries using Keyword Query Language (KQL) and FAST Query Language (FQL)
- Executing Search Queries from Code
- Use SharePoint eDiscovery functionality in custom applications
- Create and manage information management policies and document-sets programmatically
- Manage and customize SharePoint records management functionality
- Use a Custom Action to Launch a Search App
- Customizing Query Processing
- Search Results
- Configuring Result Types and Display Templates
- Customizing Content Processing
- Create and deploy an entity extractor
- Create various types of result sources
- Create basic and complex query transforms
- Configure query rule conditions and actions to target query intent
- Create and modify result types
- Create and modify display templates
- Utilize display templates with various search web parts



- Add managed properties as refiners with counts
- Utilize entity extraction in your crawls
- Extend content processing with content enrichment

Implement Enterprise Content Management

- eDiscovery, eDiscovery Process Flow
- The eDiscovery Center
- eDiscovery Cases, Sources
- eDiscovery sets
- Queries
- Exports
- SharePoint In-Place Hold
- Exchange In-Place Hold
- eDiscovery Programming Model
- Creating Content Organizer Rules

Project

Which case studies will be the part of this course?

Dream World International has recently done a SharePoint 2013 deployment to integrate and enhance its information technology base.

As a SharePoint developer, you have been assigned the following task: The Sales department needs a master calendar control in its top level site which will consolidate all the individual events from all calendar apps used by any user in the sales department in any site under the sales department site collection. This Master Calendar should provide a way for sales managers to see an aggregation of all events within their department.

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 Trainings@techeduxon.com

 www.techeduxon.com