

# SharePoint Developer Training

## Course Content

### About Trainer:

Bijay Kumar Sahoo:

Bijay Kumar Sahoo is a Microsoft MVP (7 time and continuing) in Office Servers and Services category specialized in SharePoint. He has more than 12+ years of experience in Microsoft technologies like SharePoint, Office 365, SharePoint Online, Azure, Power BI, Nintex etc. Bijay is a SharePoint consultant, trainer and founder of TSInfo Technologies a SharePoint development company in India. Bijay also focuses on SharePoint technical blogging and blogs in EnjoySharePoint.com and SPGuides.com.

**MVP Profile URL:** <https://mvp.microsoft.com/en-us/PublicProfile/5000972>

### Course Content:

#### Module-1: Introduction to SharePoint, Office 365 and SharePoint Online

- SharePoint introduction & features
- Different ways to access SharePoint
- SharePoint On-premises & SharePoint Online
- Introduction to Office 365 & SharePoint Online
- Advantages of SharePoint Online
- Office 365 Plans
- Sign up for an Office 365 subscription
- Sign up for an Office 365 E5 Trial
- Add users & setup licenses
- Access Outlook Calendar etc.
- Office 365 & SharePoint Online Admin Center go through
- How to enable Self service password reset in Office 365
- How to Change Office 365 Theme
- Office 365 Help Pane

#### Module-2: SharePoint Site Collection and Site

- SharePoint Site Collection, Sites and Sub sites
- Best Practices for SharePoint site URL
- Create new SharePoint site collection & Subsite (Classic)

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- Classic SharePoint site collection overview
- Site Collection or Site?
- SharePoint site customization
- Site templates
- Overview of SharePoint site collection features and site features
- How to change SharePoint Online Site URL in Details
- Create custom theme in SharePoint online

### Module-3: SharePoint List & Document Library

- SharePoint Classic List & Libraries
- Various list & library features
- SharePoint list versioning, content approval
- SharePoint columns
- Calculated Columns
- List Column Validations
- How file attachment works in list?
- Setting up alerts
- Working with Title column
- SharePoint list views
- Create Indexed Columns
- SharePoint Site Columns
- SharePoint Site Content Types
- List Template
- List Throttling
- Show or Hide Columns from Modern SharePoint Online List Forms or Views (Easiest Way)
- How to use Choice Column Formatting in SharePoint List
- Working with Document libraries (Classic)
- Working with columns
- Check-in, check out, versioning etc
- Setup alerts in document library and more features
- Create a list from excel in SharePoint Online
- SharePoint create folder in list and library
- Open SharePoint List in Excel + Update excel from SharePoint list automatically

### Module-4: SharePoint Online Modern Experience

- SharePoint Online modern experience
- Modern team sites (create & customize)
- Various modern web parts
- Modern site navigation
- Modern SharePoint Online site pages
- What is not possible in modern experience in SharePoint?

- Set modern home page in classic site
- SharePoint Online modern list top features
- SharePoint Online modern document libraries features

## Module-5: SharePoint Permission Management

- SharePoint permission management introduction
- Default permission groups
- Access Request Settings
- Permission Levels
- Custom Permission Levels
- SharePoint list level and item level permissions
- Active Directory Groups vs SharePoint Groups
- Unique permissions to SharePoint Pages based on Users
- How to give unique permission to a folder in SharePoint Online document library
- SharePoint Online External Sharing

## Module-6: SharePoint Pages and Web Parts

- Various SharePoint Pages (Wiki Page, Web Part Page, Publishing Page, Site/Application Page)
- Minimal Download Strategy (MDS)
- Introduction to SharePoint Web Parts
- Various SharePoint Web Parts
- Web Part Properties
- List view web part
- SharePoint web part examples
- Hero Web Part in SharePoint Online

## Module-7: SharePoint Online Development + PnP SharePoint

- HTML tutorial
- CSS tutorial
- jQuery Tutorial
- JavaScript tutorial
- JavaScript Client Object Model (JSOM)
- CSOM SharePoint (C#)
- CSOM SharePoint Examples
- SharePoint Rest API with Examples
- AngularJS SharePoint Examples
- PnP SharePoint Core Library with Example
- Create List, Library, Folder and sub folders using PnP
- Create Delete Sub Site using PnP SharePoint CSOM

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- Create Site Column, Content type and list using PnP CSOM
- CSOM with Multiple Factor Authentication
- Working with Large List in SharePoint Online
- Retrieve more than 5000 items using Rest API
- Retrieve more than 5000 items using Rest API - DataTables
- Insert more than 5000 items to SharePoint Online list using JSOM and Rest API

## Module-8: Microsoft Azure

- What is Microsoft Azure and How does Microsoft Azure Works
- Azure Active Directory (Azure AD)
- Create azure free account (without credit card)
- How to connect to Azure and Azure AD from PowerShell
- How to work with users in Azure Active Directory

## Module-9: SharePoint Apps or Add-ins

- Introductions to SharePoint Apps/Add-ins
- Limitations of SharePoint Solutions
- Advantages of SharePoint Apps
- SharePoint Hosted Apps
- SharePoint Provider Hosted Apps
- SharePoint developer sites
- SharePoint App Catalog site
- Create and Deploy SharePoint Hosted Apps using visual studio 2017
- Create site column, content type, list using SharePoint hosted app
- Create list in Host Web using jsom in SharePoint Hosted Add-in
- Various SharePoint hosted Apps Examples
- Introduction to Microsoft Azure
- Create a web app in Azure
- Create and Deploy Provider Hosted Add-in to Microsoft Azure using VS 2017 (Examples)

## Module-10: SharePoint Workflows

- Introduction to SharePoint workflows
- Workflow platforms, workflow manager & various workflow components
- Various Out of box workflows
- Three state workflow in SharePoint
- Introduction to SharePoint designer 2013
- SharePoint designer 2013 Workflows
- SharePoint designer workflow advantages
- New and deprecated workflows actions in SharePoint designer workflow

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- Create workflow using SharePoint designer 2013
- Move workflows from one site to another site
- SharePoint list workflows Examples
- SharePoint designer workflow examples - Assign a task, Site workflow (initiation form parameters), Reusable Workflow, Copy item, App Step
- SharePoint designer 2013 workflow multi level approval, Approves from SharePoint List
- SharePoint Designer Workflow Example - Product Request
- SharePoint site workflows Examples
- SharePoint Reusable workflows Examples
- Create workflows using Visual Studio 2017

## Module-11: SharePoint Customization and Branding

- Introduction to SharePoint customization and branding
- Why branding is important for any organization
- Introduction to SharePoint master page
- Create master page using existing master page in SharePoint Online
- Create a custom master page from HTML page using SharePoint design manager
- Customize existing master page using SharePoint designer 2013

## Module-12: Enterprise Content Management

- Introduction to Enterprise Content Management
- Enterprise metadata and keywords
- Metadata navigation settings for list and document libraries
- Term site in SharePoint Online
- Working with groups, term sets and terms
- Record Management in SharePoint Online

## Module-13: SharePoint Search

- Introduction to SharePoint search
- SharePoint search architecture
- SharePoint classic site vs modern search
- Content query web part example
- Content search web part example
- Content query vs Content search web part
- Result Sources Content Search Web Part and Display templates
- Content Search Web Part
- Display Templates

## Module-14: PowerShell SharePoint

- Introduction to PowerShell SharePoint
- Working with PowerShell in SharePoint Online
- SharePoint Online Management Shell
- SharePoint Document Property Promotion
- PowerShell ISE
- Advantages of PowerShell ISE
- Connect to SharePoint Online using CSOM
- Various PowerShell Examples
- PnP PowerShell Setup
- PnP PowerShell Commands
- Disable Versioning in SharePoint document library using PowerShell and PnP PowerShell

## Module-15: Business Connectivity Services

- Introduction to Business Connectivity Services
- Create external content type using SharePoint designer 2013
- Create external list in SharePoint
- Business Data List web parts

## Module-16: Microsoft InfoPath

- Introduction to Microsoft InfoPath 2013
- Create and Deploy InfoPath forms to SharePoint Online
- InfoPath list and library forms
- InfoPath alternatives in SharePoint Online
- Working with InfoPath Rules
- Publish InfoPath form to form library and content types
- Show hide section using rules InfoPath 2013 SharePoint Online
- How to Customize SharePoint Online List using InfoPath Designer 2013
- InfoPath 2013 allow Multiple attachments
- InfoPath Show and Hide section using Rules
- SharePoint Online InfoPath Designer 2013 Calculate Age from Date Of Birth

## Module-17: Microsoft Power Apps

- Introduction to Microsoft PowerApps
- PowerApps vs InfoPath

- Different ways to Access Microsoft PowerApps
- PowerApps licensing
- PowerApps Templates
- Create PowerApps from excel data source
- Various Controls in PowerApps
- Working with PowerApps Collection
- PowerApps Gallery Control
- PowerApps context variables
- PowerApps global variables
- Design Email Interface and send email from PowerApps
- Customize SharePoint Online List form using PowerApps
- Working with PowerApps Screens
- Create new PowerApps App to connect to an existing SharePoint Online list
- PowerApps Data Table Filter based on value from another Data table
- PowerApps Data Table Edit using Gallery Control
- Working with Choice column in SharePoint Online list in PowerApps
- Build navigation in PowerApps forms
- PowerApps Collect, Clear, ClearCollection Functions
- Switch Case in PowerApps
- Create Tabs dynamically from SharePoint List
- Show Hide Columns based on selected tab
- Working with PowerApps People Picker control
- Working with PowerApps Yes/No control
- PowerApps Filter function
- PowerApps Data table control
- Data Table Search and Filter implementation
- PowerApps Repeating table
- Use Repeating table data using Gallery control in PowerApps
- PowerApps Notifications using Notify function
- PowerApps Gallery Control Filter Sort with Examples
- PowerApps Export and Import at Tenant Level

## Module-18: Microsoft Power Automate (Flow)

- Introduction to Microsoft Flow
- Access Microsoft Flow
- Microsoft Flow vs SharePoint Designer Workflow
- Microsoft Flow templates
- Microsoft flow services and various flow connectors
- Flow Example: Send Email when SharePoint list item added
- Edit, Share a Flow
- Working with Approvals using Microsoft Flow
- Start approval when a new item is added to SharePoint Online list
- Update item based on Approval
- Check approval history
- Multi level approval flow using Microsoft Flow

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- Flow Example: Save outlook email attachments to SharePoint Online document library
- Flow Example: Save tweets that include specific hashtag to a SharePoint Online list
- Type of Flows
- Button Flows
- Microsoft Flow Mobile App
- Button Flow Example: Send Myself a reminder in 10 minutes
- Button Flow Example: Get today's weather forecast for my current location
- Button Flow Example: Send a working from home today email to your manager
- Get Push Notification using Microsoft Flow
- Quick track your work hours and work location in an excel table using Microsoft Flow
- Flow Example: Copy documents from Document library to archive library
- Working with Rest API in Microsoft Flow
- Create Flow to trigger manually
- Send an HTTP request to SharePoint
- Create list using Rest API from Microsoft Flow
- Create list item using Rest API from Microsoft Flow

## Module-19: Microsoft Power BI

- Introduction to Microsoft Power BI training
- What is Microsoft Power BI
- Power BI Licensing
- Different components of Power BI
- Power BI roles
- Understanding Power BI Desktop interface
- Understanding of Visualization Dashboard and Reports
- Create and Publish your First Visualizations
- Power BI Filters
- Create reports from SharePoint List
- Power BI Slicers
- Add Visuals from AppSource (Hierarchy Slicer)
- Display Data in Table Visual
- Pie Chart Vs Clustered bar chart or Clustered column chart
- Card and Multi row card
- Introduction to Power BI Desktop Query Editor
- Query Editor Examples
- Power BI Calculated and Conditional Column
- How to split column in Power BI
- Introduction to DAX
- Difference between calculated column and measure in Power BI
- How to use Function and IF in Power BI
- Aggregation Function Sumx and Filter Example
- Variables in Power BI
- Power BI Table Functions



- Publish and Share Power BI report
- Publish to Web Power BI report
- Embed Power BI reports in Microsoft Teams
- Coming soon

## Module-20: SharePoint Framework (SPFx)

- SharePoint Framework (SPFx) Introduction
- SharePoint Framework Development Toolchain
- SharePoint Framework Development Environment Set up
- Create First SharePoint Framework (SPFx) web part
- Package and Deploy SPFx Client Side Web Part
- Understanding important files folders inside spfx web part
- 3 Different ways to create SPFx Solution
- Visual Studio Code Crash Course
- Node Package Manager (npm)
- TypeScript Crash Course Part-1
- TypeScript Crash Course Part-2
- TypeScript Crash Course Part-3
- React Crash Course
- React Component
- CRUD Operations using SPHttpClient in SPFx - Insert Item Example
- CRUD Operations using SPHttpClient in SPFx - Update List Item Example
- CRUD Operations using SPHttpClient in SPFx - Display and Delete List Items Example
- SPFx Client Side Web Part Properties
- Employee Feedback Client side web part using SPFx (sphttpclient)
- SharePoint Framework (SPFx) Field Customizer extension
- SharePoint Framework (SPFx) Application Customizer Extension
- SharePoint Framework (SPFx) Command Sets Extensions
- Display List Items in SPFx web part using React
- SPFx Office UI Fabric Introduction

## Module-21: SharePoint Examples (Visual Studio)

- Remote Event Receiver in SharePoint Online Office 365 (Visual Studio)
- Develop workflows using visual studio 2017 for SharePoint Online
- Develop workflows using visual studio 2017 for SharePoint Online (Host Web)
- Web Jobs in SharePoint Online (Step by Step)
- Develop Deploy Web API to Azure and Call Web API in SharePoint Online VS workflow
- Various visual studio workflow examples

## Module-22: SharePoint Server 2019 & 2016

- Introduction to SharePoint On-premises environment
- Various SharePoint on-premises versions
- New features in SharePoint 2016
- New Features in SharePoint 2019
- Browsers supported in SharePoint 2019/2016
- SharePoint 2019/2016 farm architecture
- SharePoint 2016 installation requirements
- SharePoint 2019 installation requirements
- SharePoint server 2019 installation steps
- SharePoint Central Administration
- SharePoint web application
- SharePoint site collection and sites
- SharePoint site customization
- Managed Path in SharePoint
- Minimal Download Strategy (MDS)
- Enable/Disable MDS using PowerShell, CSOM, SSOM
- SharePoint server object model
- Farm solutions vs Sandboxed Solutions
- SharePoint server object model hierarchy
- Start with server object model using windows application
- SharePoint server object model best practices
- Create Feature using Visual Studio 2017 as Farm Solution
- Create site columns, list, add site columns to list, add columns to default view using SSOM example
- Create visual web part using visual studio 2017 for SharePoint 2016
- CRUD operations using Visual web part in SharePoint 2016/2019
- What are event receivers in SharePoint?
- Different between workflows and event receivers
- Create and deploy an event receiver using visual studio 2017 for SharePoint list
- What is timer job in SharePoint?
- How to create and deploy timer job in SharePoint?
- Create List Instance and List Definition using Visual Studio 2017 for SharePoint 2016
- Create Site Page using Visual Studio 2017
- Create Custom Action Group using Visual Studio 2017 for SharePoint 2016

## Module-23: SharePoint Migration

- Understanding update, upgrade and migration in SharePoint
- Why SharePoint Migration Required
- Different ways for SharePoint Migration
- Pre Migration Analysis
- Do you still need a tool for database upgrade approach
- SharePoint Upgrade Database Approach Steps

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- Various SharePoint Migration Tools + Sharegate
- Metalogix Overview
- DocAve from AvePoint - Overview
- Other tools like Docket, Saketa, HarePoint, Express migration for SharePoint Overview
- SharePoint migration using tool demo - screenshots
- Free SharePoint Migration Tool from Microsoft
- Lotus Notes to SharePoint Migration
- Final Note on SharePoint Migration

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