



Python Overview for Managers

Course ISI-1510

1 Day

Instructor-led, Hands on

Course Description

This five-day instructor led course provides students with a complete guide to building SharePoint Framework solutions, apps, add-ins, and solutions for SharePoint for your enterprise or customer needs. Regardless of your title, this course is intended for professional developers who develop solutions for SharePoint products and technologies in a team-based, medium-sized to large development environment.

The SharePoint Framework (SPFx) is a page and web part model that provides full support for client-side SharePoint development, easy integration with SharePoint data, and support for open source tooling. With the SharePoint Framework, you can use modern web technologies and tools in your preferred development environment to build productive experiences and apps that are responsive and mobile-ready from day one. Currently, the SharePoint Framework is only available for SharePoint Online.

Course Objectives

- Understand how to develop solutions for SharePoint Online
- Understand the features of the SharePoint Framework.
- Create SharePoint Framework solutions using two alternative models: client-side JavaScript injection, and SharePoint Add-ins.
- Create a SharePoint client-side web part.
- Use SharePoint Framework (SPFx) Extensions to extend the SharePoint user experience.
- Learn and create the two basic kinds of SharePoint Add-ins: SharePoint-hosted and provider-hosted.
- Learn solution guidance, including insights and details based on scenarios and functional requirements, for Office 365 development and SharePoint patterns and practices (PnP).
- Understand all SharePoint schemas categorized into eight sections, providing easy access to schemas for SharePoint Add-ins, BCS, workflows CAML, SharePoint search settings portability schemas, and other SharePoint schemas.
- Learn how to participate in the SharePoint Development Community (also known as the SharePoint PnP community) which is an open-source initiative coordinated by SharePoint engineering.

Prerequisites

- A working knowledge of using Visual Studio and Visual Studio Code
- A basic working knowledge of SharePoint
- A working knowledge of Visual C#

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- A basic working knowledge of client-side web technologies including HTML, CSS, and JavaScript.

Course Outline

Module 1: SharePoint development overview

- What's new for developers in SharePoint 2019
- SharePoint glossary
- Protocol handler error in SharePoint 2016
- Programming models
- Add SharePoint capabilities
- Create no-code solutions
- Upgrade site customizations
- Set up a development environment for SharePoint
- How-tos for SharePoint
- Code samples for SharePoint
- Choose the right API set
- Use the Office 365 content delivery network (CDN)
- Use the site collection app catalog
- Maintenance mode for client-side web parts
- SharePoint Workflow Manager
- SharePoint Application Lifecycle Management
- Accessibility
- Detect the installed SKU
- Avoid getting throttled or blocked in SharePoint Online
- Volume Shadow Copy Service (VSS)

Module 2: SharePoint Framework

- Overview of the SharePoint Framework
- Set up your development environment

Module 3: Web parts

- Getting started
- Basics
- Migrate existing customizations

Module 4: Extensions

- Tenant Wide Deployment
- Getting started
- Migrate existing customizations

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Module 5: SharePoint Add-ins

- Get started creating SharePoint-hosted add-ins
- Get started creating provider-hosted add-ins
- Design
- Develop
- Publish
- Tools

Module 6: Solution Guidance

- Branding and site provisioning solutions
- Customizing the "modern" experiences in SharePoint Online
- OneDrive and SharePoint Online Multi-Geo
- Building SharePoint Online portals
- Composite business add-ins
- ECM solutions
- Localization solutions
- Search solutions
- Security and performance
- SharePoint Add-in recipes
- Transforming farm solutions
- Transforming sandbox solutions
- User profile solutions
- Deploying your SharePoint Add-ins
- PnP remote provisioning
- PnP remote timer job framework
- PnP Office 365 CLI
- PnP PowerShell reference
- PnP Sites Core API reference
- PnP Sites Core API reference - Extension methods

Module 7: Schema reference for SharePoint

- SharePoint Add-in schemas
- Business connectivity services (BCS) schemas
- Workflow schemas
- SharePoint Features schemas
- Content migration schemas
- Collaborative Application Markup Language (CAML) schemas
- SharePoint search settings portability schemas
- Other SharePoint schemas

Module 8: SharePoint Developer Community resources

- Contribute

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- Open source projects
- GitHub repositories
- Submit issues
- Submit feature requests
- SharePoint developer videos on YouTube
- Office development on Twitter
- SharePoint developer forum

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