

SharePoint Framework Development with PnP

SET UP THE SPFX AND PNP DEVELOPMENT ENVIRONMENT



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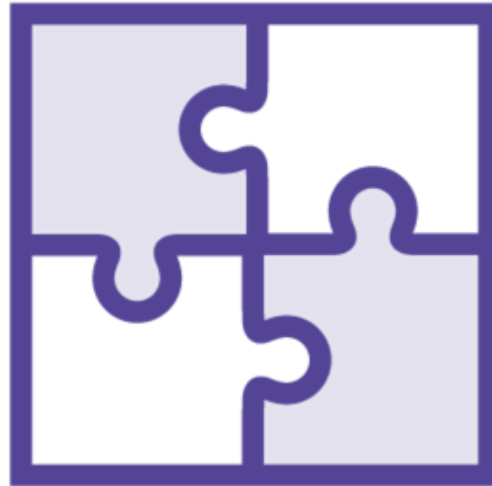


Why Take This Course?



Microsoft 365

Including SharePoint
Online



SharePoint SPFx

Framework extensions
for SharePoint



SharePoint PnP

Open-source,
community initiative



Why Take This Course?

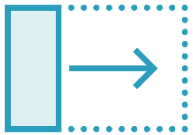


Collaboration
At a global scale



Bespoke
Applications and customizations

SharePoint Framework (SPFx) Overview



SPFx extends the SharePoint user experience



Microsoft has encouraged developers to create both client-side and server-side customizations since the beginning of SharePoint Online



For applications not demanding considerable server-side resources, client-side development is the natural choice, and the popularity of this choice led to SPFx being born



SharePoint Framework (SPFx) Overview



It is a collection of scaffolding templates and packages



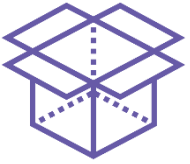
Framework-agnostic page and web part model



Microsoft Teams, SharePoint data



SharePoint Patterns & Practices (PnP) Overview



Open-source effort



Led by SharePoint engineering



Documentation, samples, reusable controls



Suggested Prerequisites

Microsoft 365 Developer Subscription



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Visual Studio Code



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Web App Dev. & Node.js



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SharePoint



Course Outline



**Getting Started with SharePoint
Framework and PnP**

Create a client-side web part

Connecting to PnPjs

Modernize existing SharePoint sites



Module Overview



Configure the Developer tenant

**Install the SharePoint Framework
Extensions**

Create the skeleton project

Troubleshooting common issues





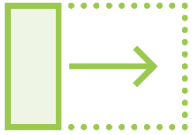
Globomantics is a global finance company with offices all over the world

Invested in Microsoft 365 to:

- Collaborate on business documents
- Promote the company identity through branding
- Create custom applications for all users to help run the business



Globomantics Requirements



Globomantics wants to extend SharePoint to provide applications for all of its employees worldwide, that help with their day to day tasks



Globomantics provides foreign exchange (currency conversion) services to customers



Globomantics also wants to promote their own branding by including their own logos and colors within the SharePoint sites



Demo



Configuring the tenant



Demo



Set up the development environment

Introducing:

SharePoint Framework Extensions (SPFx)

Extension for debugging with Visual
Studio Code



Demo



Creating a skeleton application

Using the installed components to create the base application

Trusting a self signed developer certificate



Troubleshooting & Debugging



Demo



Debug using the local workbench



Demo



Debug using the hosted workbench



Demo



Debug on modern SharePoint pages



Demo



Using the developer dashboard



SPFx Facts

Current version: v1.11.0

Open source – large community

Framework agnostic – use any JavaScript framework you like

Runs in the user context and browser connection

<https://docs.microsoft.com/en-us/sharepoint/dev/spfx/sharepoint-framework-overview>



PnP Facts

Open source – large community

Tools to extend Microsoft 365

Follows best practices

<https://pnp.github.io>



Module Summary



Configured the developer tenant

- Created an app catalogue
- Created a test site

Configured the development environment

- Installed the SPFx extensions
- Installed debugging extensions in Visual Studio Code

Created the skeleton project

Demonstrated how to debug the application

- Local and hosted workbench