

Microsoft 365 - Programming for SharePoint Online I

Course code: SPO_DEV_1

A one-week course aimed at web application developers who want to gain a detailed understanding of how to program, extend and leverage SharePoint Online using SharePoint Framework (SPFx) technology. During the course you will learn how to configure the development environment, create SPFx applications from basic to complex, including deployment, upgrade, testing and debugging. The course is suitable for the average web developer with the goal of working independently on programming for SharePoint Online. Basic knowledge of web technologies and programming in JavaScript or TypeScript is assumed. The course is not suitable for complete beginners.

For whom the course is intended

This course is designed for developers who create solutions for SharePoint Online technology.

What the course will teach you

- Set up a development environment and use tools like Node.js, Yeoman, Gulp and more.
- Use Visual Studio Code and debug SPFx applications in SharePoint Online.
- Utilize SharePoint APIs as well as the M365 Graph API.
- Create a custom webpart, application extension, or full-page application for SharePoint Online.
- Customize the look and feel of user interface elements.

Prerequisite knowledge

- Basic knowledge of web application development (HTML, CSS, JavaScript) ideally within the scope of the [HTMLCSS] and [INTJS] or [INTTS1] courses.
- Basic knowledge of the SharePoint Online platform - ideally within the scope of the [GOC222] course.

Preparing for certification exams

The primary goal of the course is not to prepare for certification exams, but to master the theoretical principles and practical skills necessary to work effectively with the product.

Teaching methods

Expert lecture with practical demonstrations and exercises with the lecturer in the Microsoft 365 test Tenant.

Study materials

Electronic presentations of the material covered, source code for all exercises and other sample projects including source code.

Course outline

Day 1: Introduction to Technology

- An overview of development technologies for SharePoint.
- SharePoint REST API v1 and Graph API.
- Setting up the development environment.
- "Hey guys" webpart.
- App catalog and application deployment.

Day 2: SharePoint Framework in detail

- PowerShell modules for SharePoint Online.
- CLI for M365.
- Visual Studio Code and useful extensions.
- Webpart project with web service calls, styles and localization.

Day 3: Extensions

- Clarity Extension.
- JSON Formatting vs. SharePoint Field Customizer.

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- Customizing the look and feel of applications using Application Customizers.

Day 4: Fluent UI & React

- An introduction to React technology from a SharePoint Online perspective.
- Fluent UI.
- Other useful component libraries.
- Component structure for larger projects.
- Graph API in practice.

Day 5: Complex Applications

- Configuration.
- List templates, Site templates and Assets Deployment.
- Debugging.
- Document Management System project.

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