

# SharePoint Framework (SPFx) — Application Development Basics




Course code: SPO\_DEV\_1

This course is designed for anyone who wants to learn the basics of modern solutions using SharePoint Framework (SPFx) in Microsoft 365. Participants will learn how to use tools, integrate React & Fluent UI, access data (REST & Graph), address performance, security, and deployment automation issues, all in accordance with best practices.

Affiliate	Duration	Course price	ITB
Praha	5	27 000 Kč	0
Brno	5	27 000 Kč	0
Bratislava	5	1 150 €	0

The prices are without VAT.

## Course terms

Date	Duration	Course price	Type	Course language	Location
 19.10.2026	5	27 000 Kč	Telepresence	CZ/SK	GOPAS Praha
 19.10.2026	5	27 000 Kč	Telepresence	CZ/SK	GOPAS Brno
 19.10.2026	5	1 150 €	Telepresence	CZ/SK	GOPAS Bratislava

The prices are without VAT.

## Who is the course intended for

- Front-end developers in Microsoft 365
- Teams working with classic SharePoint solutions moving towards modern development
- Power users transitioning to sustainable and structured development

## Required prior knowledge

- Creating websites in HTML/XHTML and CSS
- JavaScript basics at the JS\_PROG1 course level
- TypeScript basics at the JS\_TS1 course level
- React basics (optional/advantageous)
- Knowledge of SharePoint lists and libraries (optional/advantageous)

## Course outline

- Overview of the Microsoft 365 & SPFx platform (2 hours)
- Brief history of SharePoint and pro-code approaches
- Positioning of SPFx vs Add-ins / Power Platform / Teams apps
- Multi-tenant and tenant boundaries
- Development environment & tools (2.5 hours)
- Node.js LTS, package managers, Yeoman, Gulp
- fnm/nvm; recommended global packages
- Project structure and configuration (tsconfig.json, package.json, serve.json)
- Project structure & first Web Part (2.5 hours)
- Entry points, manifests, localization
- Property pane basics & live reload
- Property panes & dynamic configuration (2.5 hours)
- Reactive vs. non-reactive fields, validation patterns
- Other configuration options
- React & Fluent UI integration (2.5 hours)

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- React/Fluent UI versions and compatibility
- Optional helper packages and patterns
- Functional components, hooks, theming & accessibility Bonus — React UI libraries: KendoReact integration (1.5–2 hours)
- Overview of the KendoReact library and licensing (commercial)
- Installing packages and basic theme in SPFx
- Using KendoReact Grid connected to SharePoint list data
- Theming alongside Fluent UI
- Notes on package size and performance
- Data access: REST, PnPjs & Microsoft Graph (2.5 hours)
- AadHttpClient vs MSGraphClientFactory vs SPHttpClient
- Batching, selective projection, error handling
- Performance & caching (2.5 hours)
- Package analysis, code splitting, lazy loading
- Caching strategies (session, in-memory, PnPjs)
- Local storage/indexedDB
- SPFx Extensions (2.5 hours)
- Command Set, Application Customizer, Field Customizer
- JSON formatting as a no-/low-code alternative
- Lifecycle events & secure DOM manipulation
- Security & permissions (2.5 hours)
- Scoped permissions, admin consent workflow
- Fallback when scope is denied
- Localization & multiple languages (2.5 hours)
- loc folder, fallbacks, culture switching
- Packaging & App Catalog deployment (2.5 hours)
- Creating .sppkg, versioning, tenant vs. site deployment
- Upgrade paths & manifest development
- CI/CD & Quality gates (2.5 hours)
- GitHub Actions / Azure DevOps pipeline
- Lint, unit tests (Jest), package size limits
- Telemetry & diagnostics (2.5 hours)
- Logging
- Performance marks
- Error boundaries
- Hardening & governance (2.5 hours)
- Dependency checks, licenses, polyfill strategies
- Secure configurations and resilience to change
- Capstone & review (2–2.5 hours)
- Presentation of the final Web Part + any extensions
- Code review section & backlog improvements

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