

55249-A: Developing with the SharePoint Framework

Module1: SharePoint Framework

- **What is SharePoint Framework**
- **Why SharePoint Framework?**
- **Modern toolchain**
- **The Future**
- **More Info**

Module2: Preparing your machine

- **Setup Office 365**
- **Software Installation**

Module3: Modules

- **Creating a Project**
- **Using Modules**
- **CommonJS**
- **Important Modules**

Module4: Framework Client Web Parts

- **What is a Client Web Part?**
- **Creating a project**
- **Exploring Project Contents**
- **Running Your Project**
- **Gulp tasks**
- **Web Part Configuration**

Module5: TypeScript

- **What is TypeScript**
- **Usage**
- **Language**
- **Variables**
- **Functions**
- **Interfaces and Classes**
- **Promises and Async/Await**
- **Other Features**
- **Modules**
- **Summary**

Module6: Client Web Part Properties

- **Webpart Properties**
- **Adding Properties**
- **Using Properties**
- **Preconfigured Entries**
- **Dynamic Data**
- **Custom Properties**
- **Advanced Configuration**

Module7: Loading SharePoint Data

- **Page Context**
- **Web Services Overview**
- **REST and ODATA Fundamentals**
- **SharePoint REST API's**
- **AJAX**
- **Default Http Client**
- **Default SharePoint Http Client**
- **Checking the environment**
- **List Subscriptions**

Module8: Loading Libraries and/or Frameworks

- **Considerations**
- **NPM Package**
- **Loading from a URL**
- **Loading A Local Copy**
- **Loading jQuery and plugins**
- **Component loader**
- **Conclusion**

Module9: Build and Deploy a Framework solution

- **Overview**
- **Bundling**
- **Packaging**
- **Deployment**
- **Site Specific App Catalog**
- **Deploying Assets**
- **Features**
- **Versioning**
- **Deploy to Microsoft Teams**

Module10: SharePoint Framework and React

- **Overview**
- **Modern Web Applications**
- **What is React?**
- **Components**
- **SPFx Bootstrapping**
- **What is JSX**
- **JavaScript Expressions**
- **JSX Tips and Tricks**
- **Component Properties**
- **Component State**
- **Interactivity**
- **Multiple Components**
- **Transferring props**
- **Form Components**

- **Component Lifecycle**
- **Advanced Performance**
- **PureComponent**
- **Extra**

Module11: SASS

- **What is SASS?**
- **The Language**
- **Variables**
- **Types**
- **Comments**
- **Nested Rules and Properties**
- **Partials**
- **Extend**
- **Mixins**
- **Functions**

Module12: Office UI Fabric

- **What Is Office UI Fabric?**
- **Office UI Fabric Versions**
- **Fabric Core Styles**
- **Example Uses**
- **Fabric Components**
- **Fabric JS**
- **ngOfficeUIFabric**
- **Fabric React**

Module13: Consuming AAD secured API's

- **Introduction to Microsoft Graph**
- **Microsoft Graph API**
- **Consuming the Microsoft Graph API**
- **Registering application in Azure AD**
- **API Permissions**
- **Consuming AAD protected API's**
- **Security Guidance**
- **Domain Isolated Web Part**
- **Security Control**
- **Summary**

Module14: SharePoint Framework Extensions

- **Extensions Overview**
- **Creating Extensions**
- **Application Customizers**
- **Field Customizers**
- **Command Sets**
- **Extension Deployment**

Module15: Dynamic Data

- **Introduction**
- **Exposing data**
- **Consuming data**
- **Dynamic Data From Code**
- **Advanced Configuration**
- **Summary**

Module16: Testing SPFx web parts

- **Test frameworks**
- **Running tests**
- **Component testing**

Module17: SPFx Tips and Tricks

- **Debugging**
- **Azure Application Insights**
- **Gulp**
- **Webpack**