

Building Diagram Frame Web Part

using the SPFx framework for better experience embedding Visio diagrams on modern pages

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Nikolay Belykh About me

- Independent Software Developer/Consultant (Vienna)
- Former MVP (Visio, Office & services)

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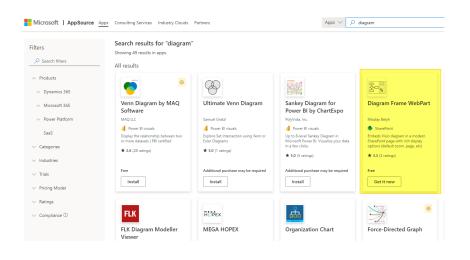
👺 VisPlan



Overview

- Motivation: replacing classic Visio diagram web part
- Demo
- Hosting Visio Online API, wrapping office.js (code)
- Using FluentUI and SPFx controls for UI (code)
- Using Azure DevOps for build, SPFx localization extension for translation
- ► Submitting to the AppSource store, ISV portal, procedure and feedback
- Thank you (links)

Diagram Frame in Microsoft AppSource store



- Open-source web part published to the public AppSource store
- Available for any organization to install using the store UI
- Can be also installed "manually" by direct admin upload to app catalog

Motivation: Classic Visio web part and Diagram Frame web part



Visio Online API

- Allows Embedding Visio diagram in your app
- Provides basic methods for controlling the frame content and manipulating the diagram
- The diagram is embedded as an IFRAME
- Available as npm package(@microsoft/office-js @types/office-js)
- https://learn.microsoft.com/en-us/office/dev/addins/reference/overview/visio-javascript-reference-overview

Code overview, libraries used

- Project created using @microsoft/sharepoint yo webpart generator
- SPFx framework 1.15 (typescript, react)
- pnp-js (for convenient access to SharePoint)
- Fluent UI 8 (basic UI and adapt to the site theme)
- SPFx controls react (https://pnp.github.io/sp-dev-fx-controls-react)
 - Placeholder
 - ► File Picker (adapted)
- Custom property control implementation sample

"Infrastructure" tools used

Azure DevOps (public pipeline, free for starter and open-source projects)
 connected to GitHub

https://dev.azure.com/unmanagedvisio/UV-GitHub-Public/_build?definitionId=18&_a=summary

- GitHub releases plugin
- SPFx localization extension (translating UI to other languages). CSV/XLSX file support by Elio Struyf:

https://marketplace.visualstudio.com/items?itemName=eliostruyf.vscodespfx-localization

Publishing to the AppSource

- Need to register in Microsoft partner center
- ► The app is submitted via partner portal
- ► EULA, Privacy policies are important
- Review and testing loop took a few weeks (free)
- Many thanks to SPFx submission team for the guidance.
- https://learn.microsoft.com/en-us/sharepoint/dev/spfx/publish-tomarketplace-overview

Thank you

- Web Part GitHub repository:
- https://github.com/nbelyh/VisioOnlineSpfxWebPart
- App Source store:
- https://appsource.microsoft.com/en-us/product/office/wa200002491
- Web part website:
- https://unmanagedvisio.com/products/diagram-frame-sharepoint-visio-web-part
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