Power Pages:
The pro developers guide!

Nick Doelman

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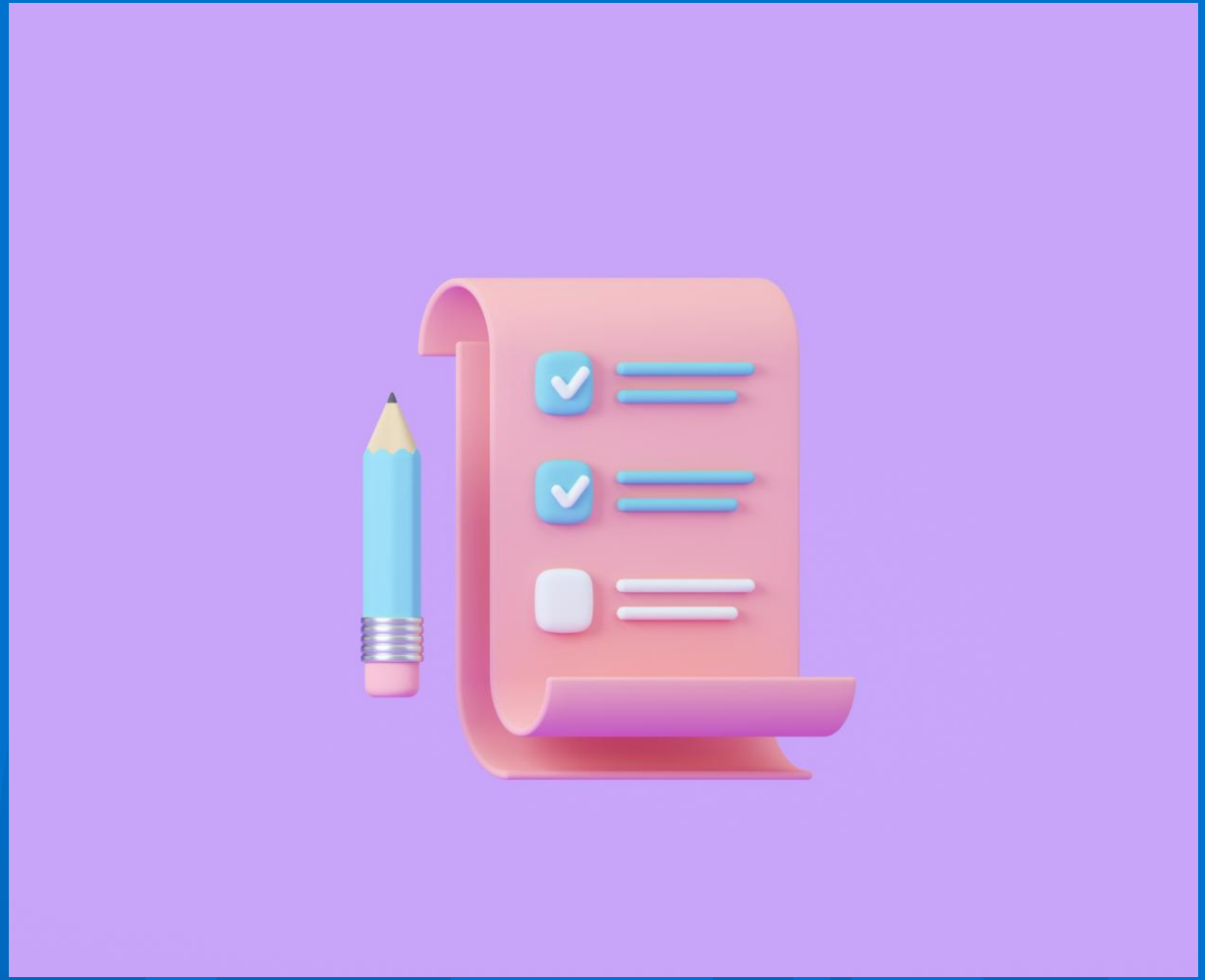
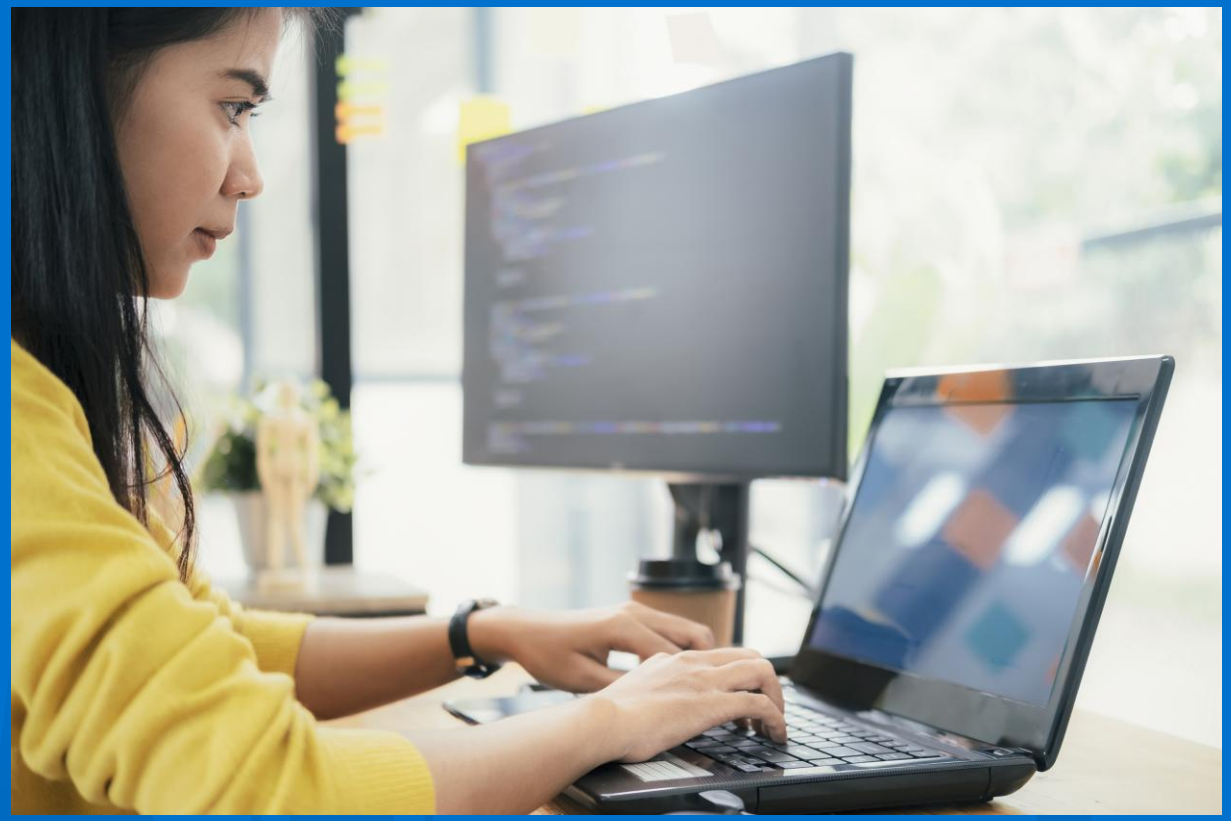
Agenda

- Role of developers in Power Pages projects
- Power Pages developer toolbox
- JavaScript
- Liquid/Custom web templates/components
- Portal Web API
- Power Automate, Plug-ins, Custom Code Components (PCF)



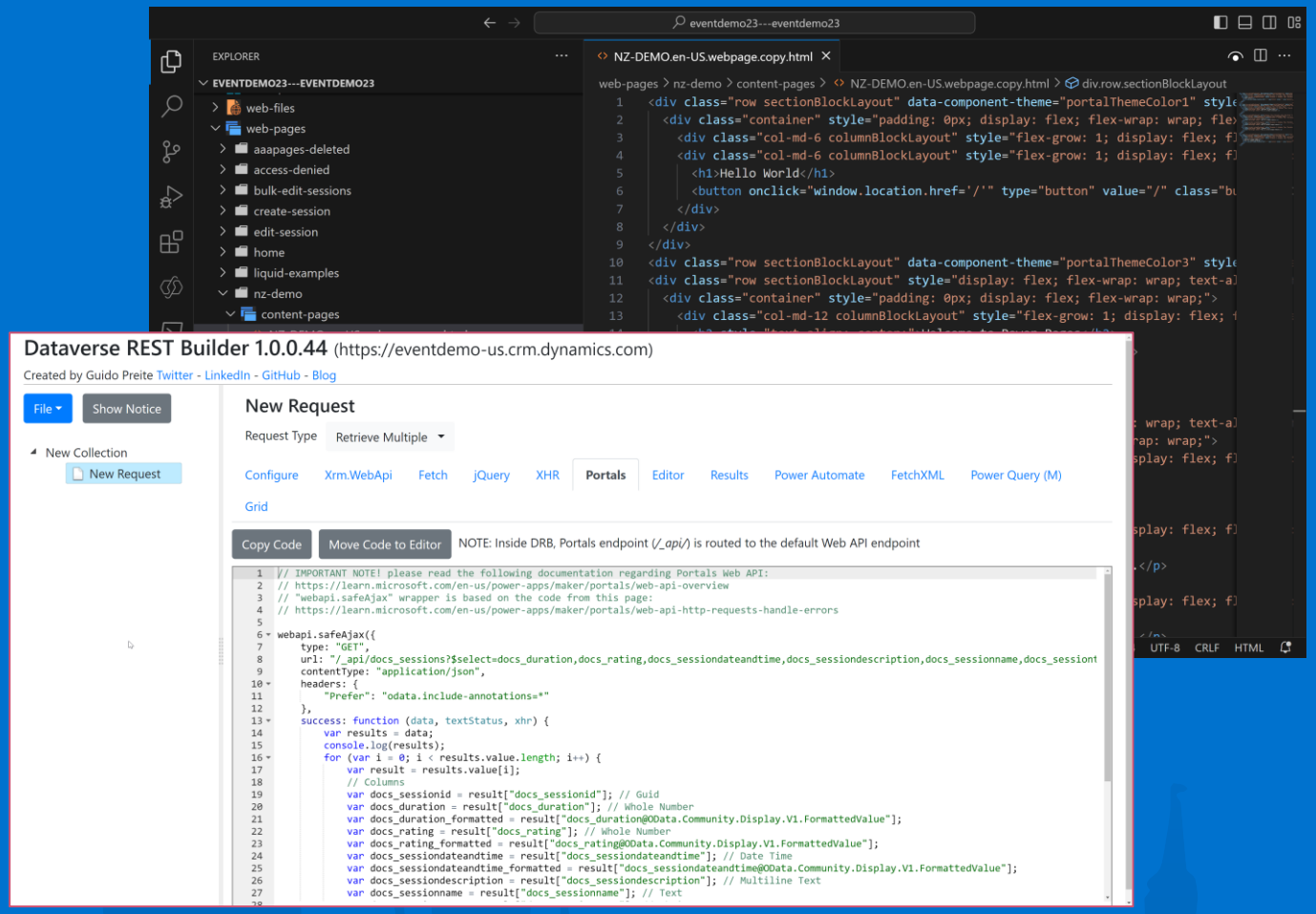
Role of Pro-developers in Power Pages

- Maker options
  - Static pages, forms, views, Power BI, SharePoint, Agents
- Developers can provide
  - Additional functionality/UX to forms and lists
  - Create custom web template components
  - Custom data views
  - Interactive functionality with Dataverse
  - Backend business logic



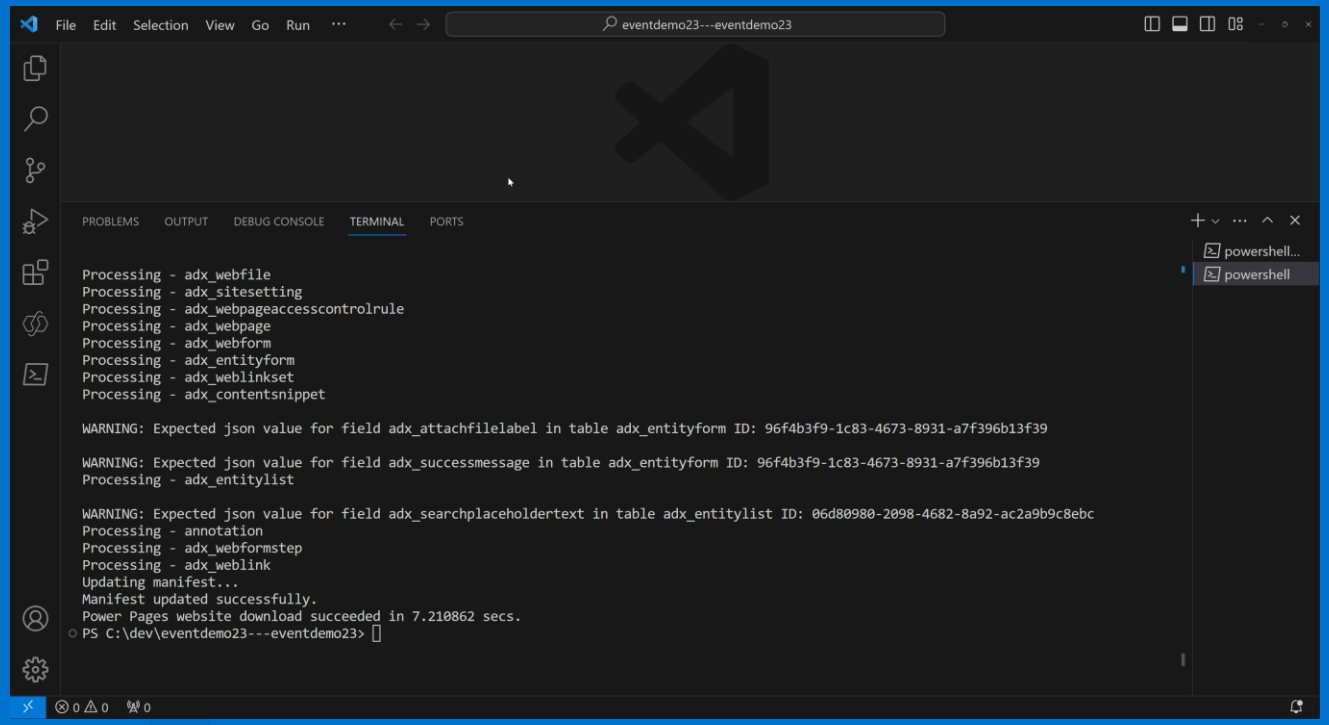
Pro-developer toolbox

- Visual Studio Code
- Power Platform Tools
- XrmToolBox
- Dataverse Rest Builder
- Power Platform Level Up
- Copilot for Power Pages
- Github Copilot



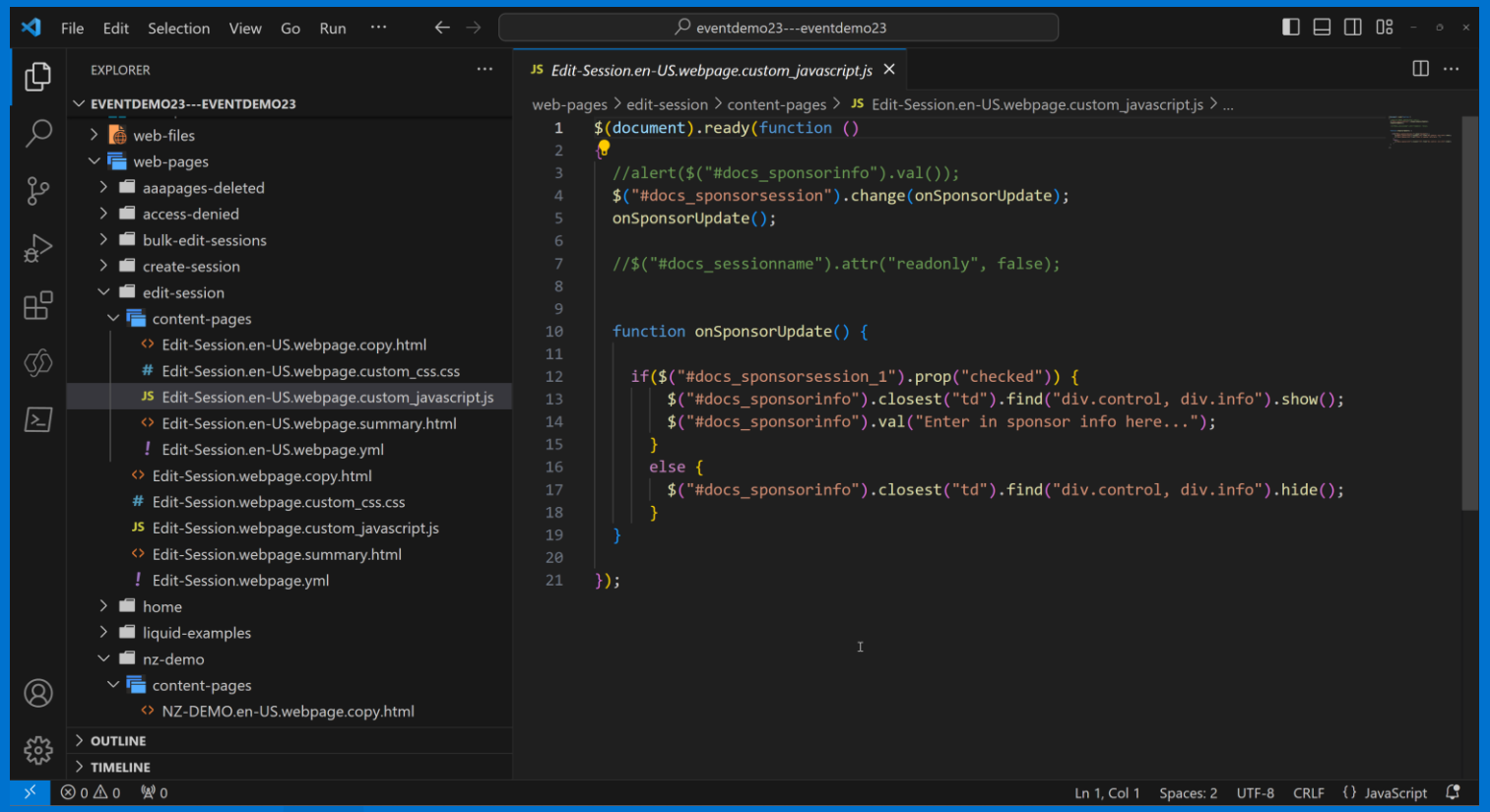
Demo – Visual Studio Code

- Run Visual Studio Code desktop
- Download website metadata
- Create a web page
- Upload website metadata



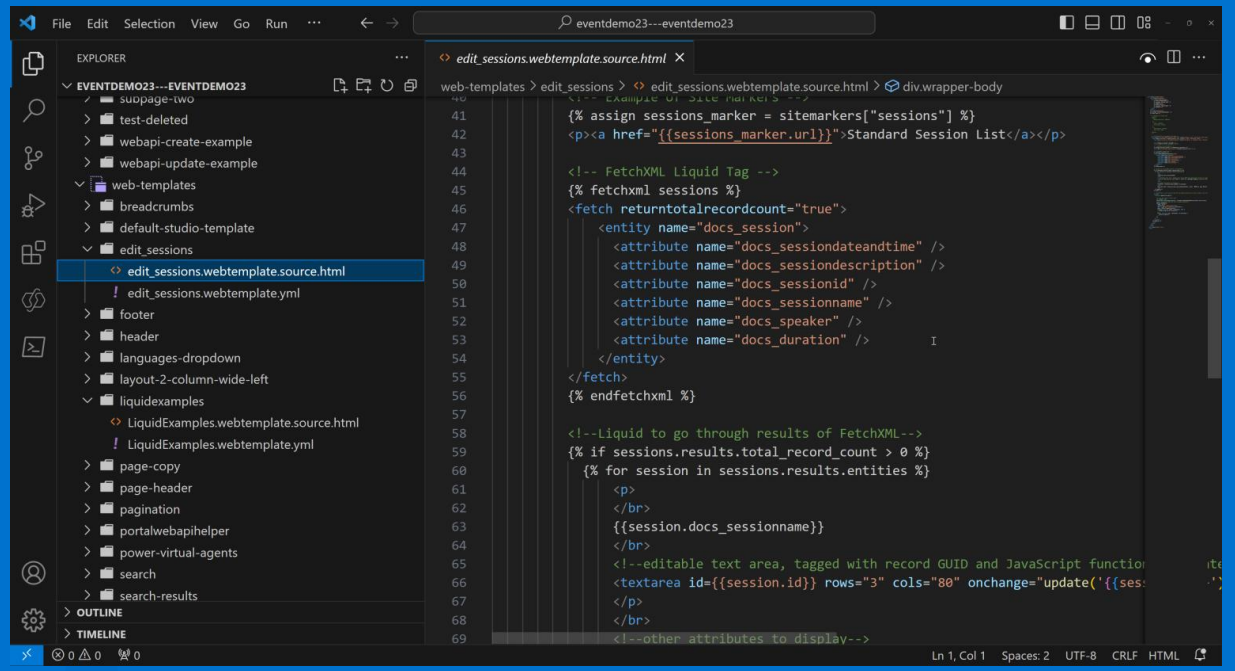
DEMO - JavaScript

- Add code to be run client side to manipulate Power Pages form and list components
- Copilot for Power Pages can assist in generation of code
- DEMO



Liquid

- Liquid is a markup language that has been extended to display information form Dataverse
- Runs server side, meaning essentially read-only
- Can be added anywhere (web pages, web templates, etc)
- Hard to debug
- Foundation for creating custom web templates

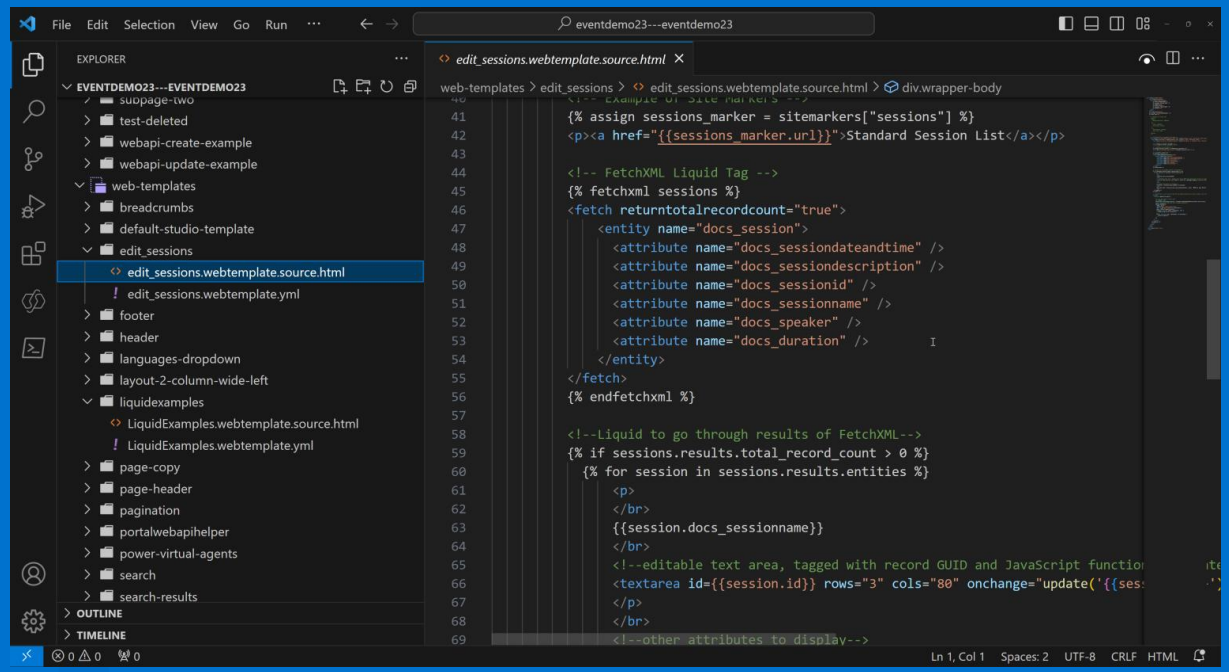


Debug Liquid:

https://www.youtube.com/watch?v=MmLBIIhpNqk

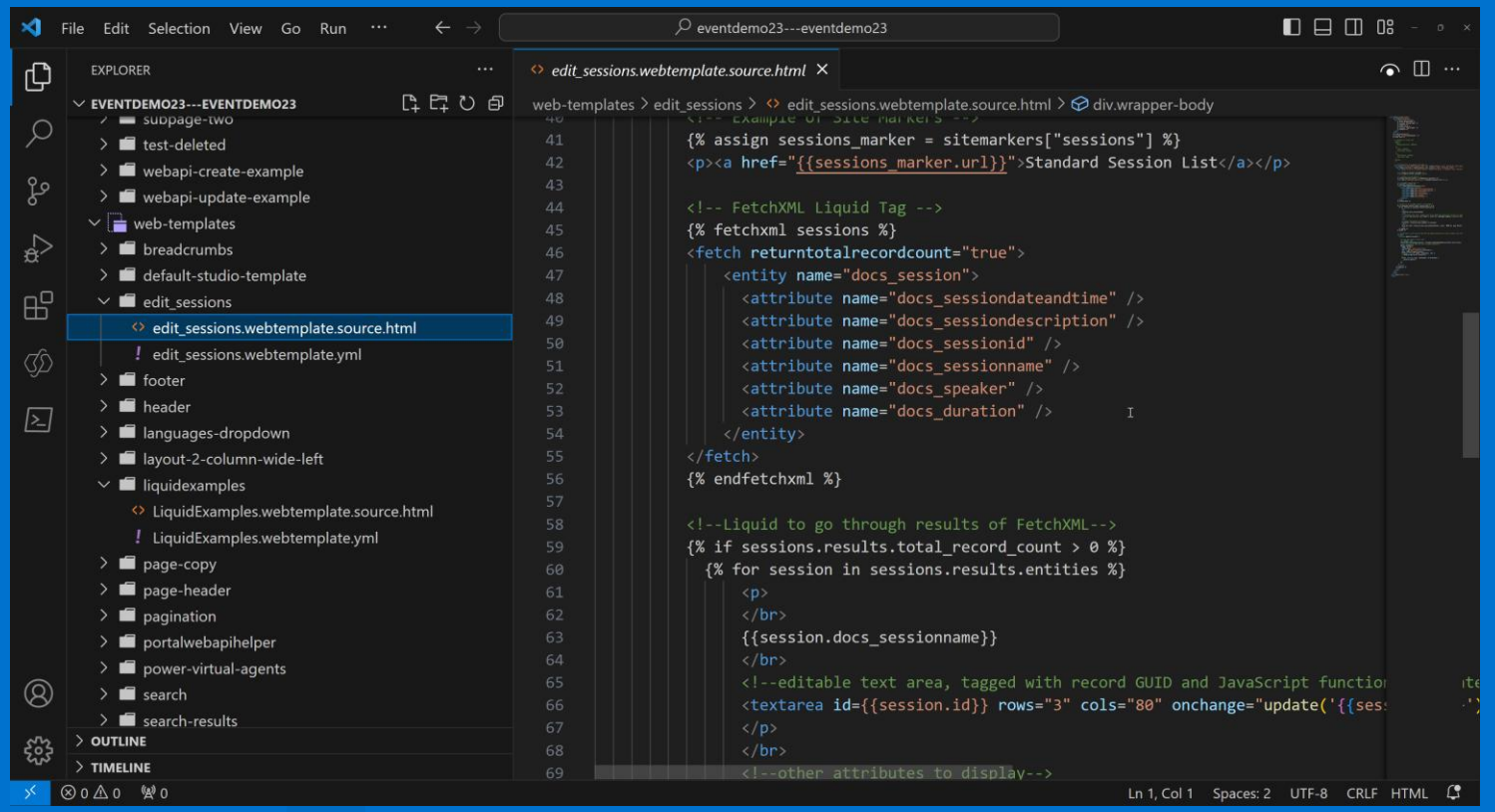
DEMO - Custom web templates/components

- Can contain HTML, CSS, JavaScript, Liquid
- Foundation for web pages
- Not tied to language (like web pages)
- Can also be used as components in web pages
- Web template components can be added and configured by makers
- DEMO – custom list component

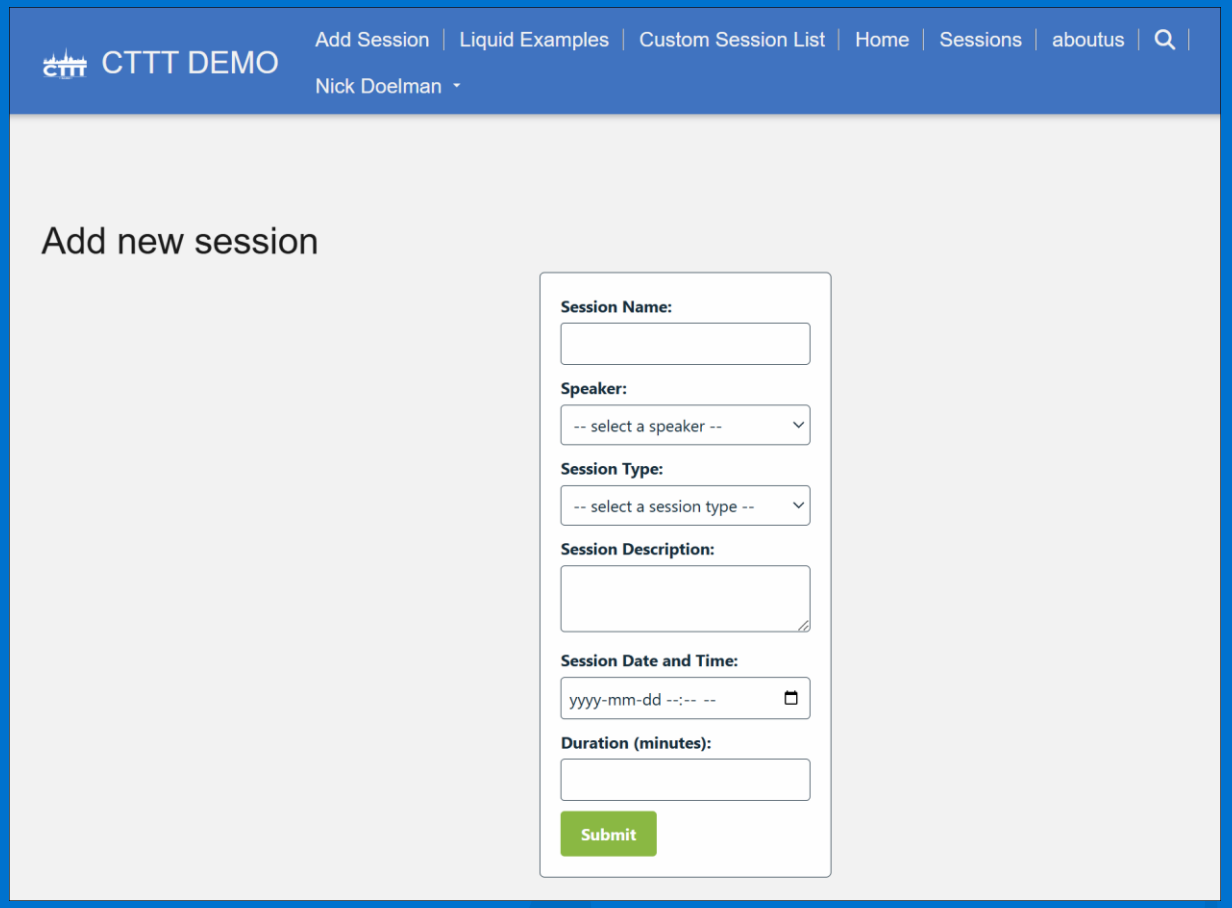


Power Pages Web API

- Ability to Create, Read, Update, Delete, Associate and Disassociate Dataverse records
- Useful in creating custom interfaces
- DEMO – create session using WebAPI



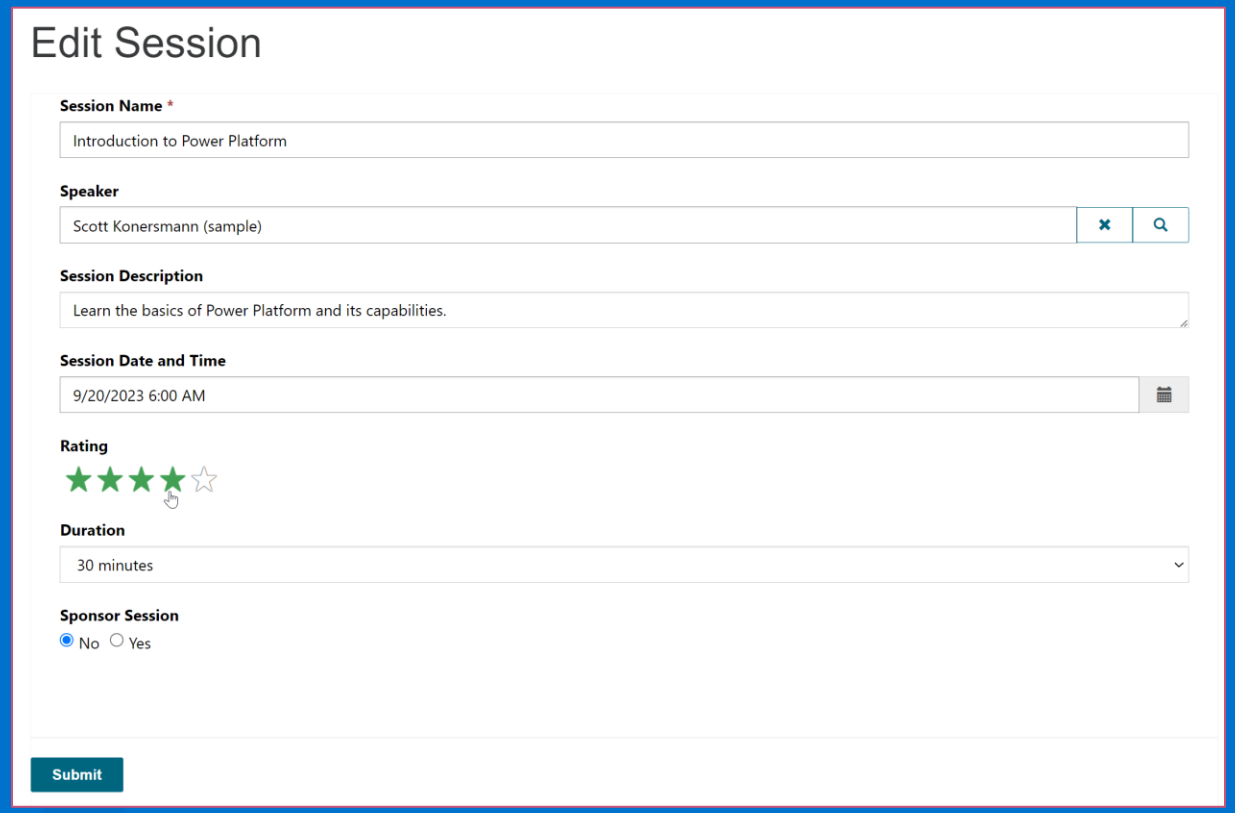
Custom web template examples



- Custom HTML form to create new session records

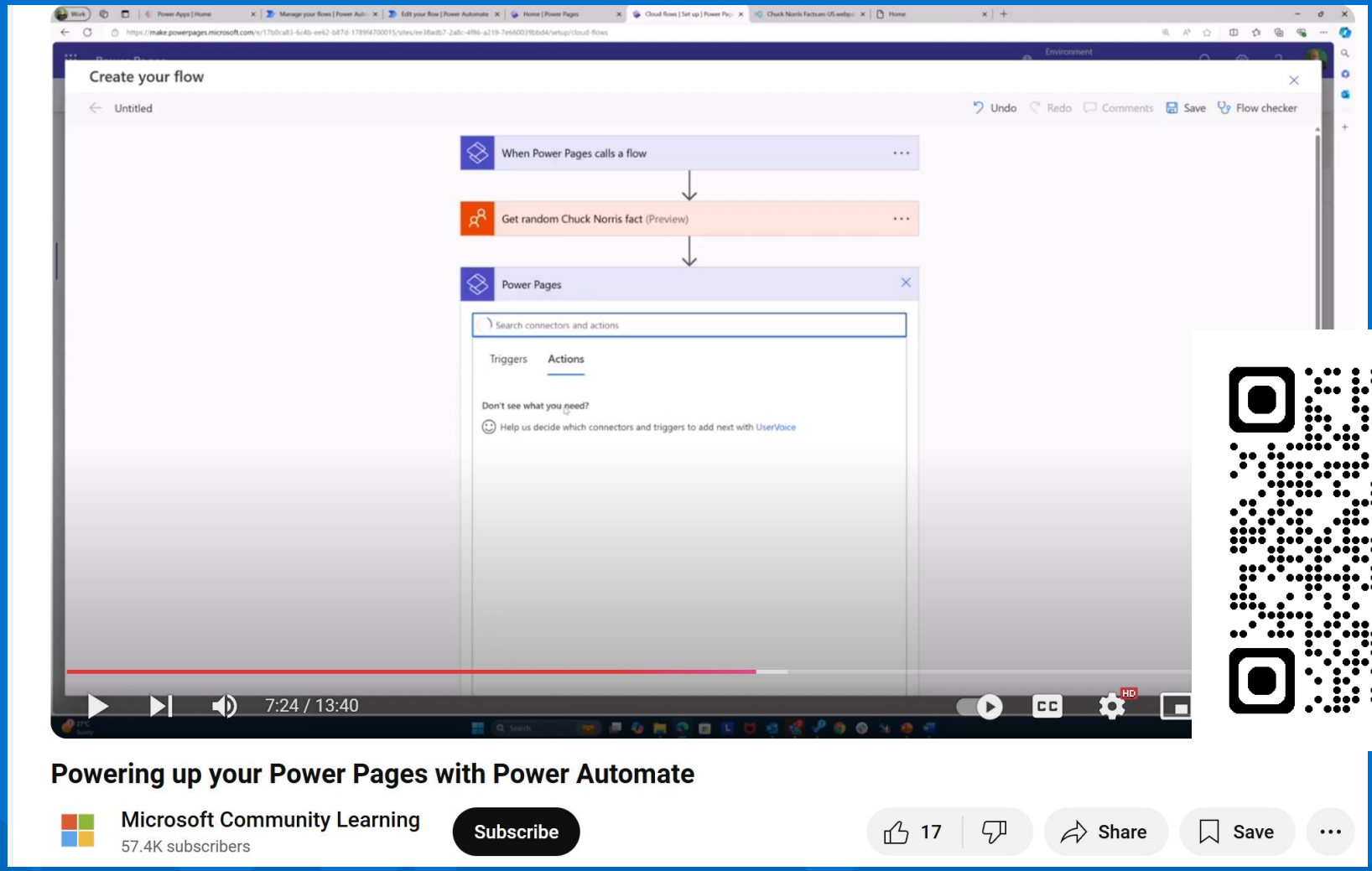
Other Power Pages pro-developer tools

- Power Automate
- Dataverse plug-ins
- Custom code components
- Integrations (DocuSign, Copilots, Payments)



Power Pages and Power Automate

https://youtu.be/gqsAm_n13d8?si=cSsCGNV8QTjQcAbs



Power Pages and Dataverse Plug-Ins

https://youtu.be/xCB63bPPW7k?si=kpKAiEZl2hgJwF0r

Summary

- A pro-developer is a key contributor to Power Pages projects
- Power Pages is “pro-developer” friendly with both built in and community tools
- Pro-developers fit well in fusion teams further enabling no-code/low-code makers

Homework

- Setup a developer environment and provision a developer website
- Download Visual Studio code and enable the Power Platform Tools
- Write some code! 🙄

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Q&A