POWER PAGES
Portallunsj
Ons 14. Mai 2025 - kl. 11.00-12.30
Gratis - Online
For Power Pages folk i Norge
MacBook Pro

Ulrikke Akerbæk

LinkedIn /ulrikke

Twitter @ulrikkeakerbk

Epost ulrikke@akerbak.com

Blogg ulrikke.akerbak.com

Power Platform Practice Lead

@ Itera Fredrikstad

Microsoft Business Applications MVP

- SharePoint
- Dynamics 365
- Power Platform
- POWER PAGES <3
- Brukeropplevelse

Denne presentasjonen finner du på

ulrikke.akerbak.com/portallunsj

Når er det **Portallunsj**?

Midt på	dagen	kl. 11.00
Midt i	uka	Onsdag
Midt i	måneden	15.-ish
Midt i	kvartalet	feb - mai - aug - nov

Som regel.. Med unntak.. ;)

Photo by TopSphere Media on Unsplash

Husregler

- Camera på
- Unmute
- Still spørsmål
- Bruk chat

Skru på kamera og bli med på bilde!
Bildet vil bli brukt i sosiale medier.

SMILE ☺

Photo by Wesley Tingey on Unsplash

Power Pages User Group Norway

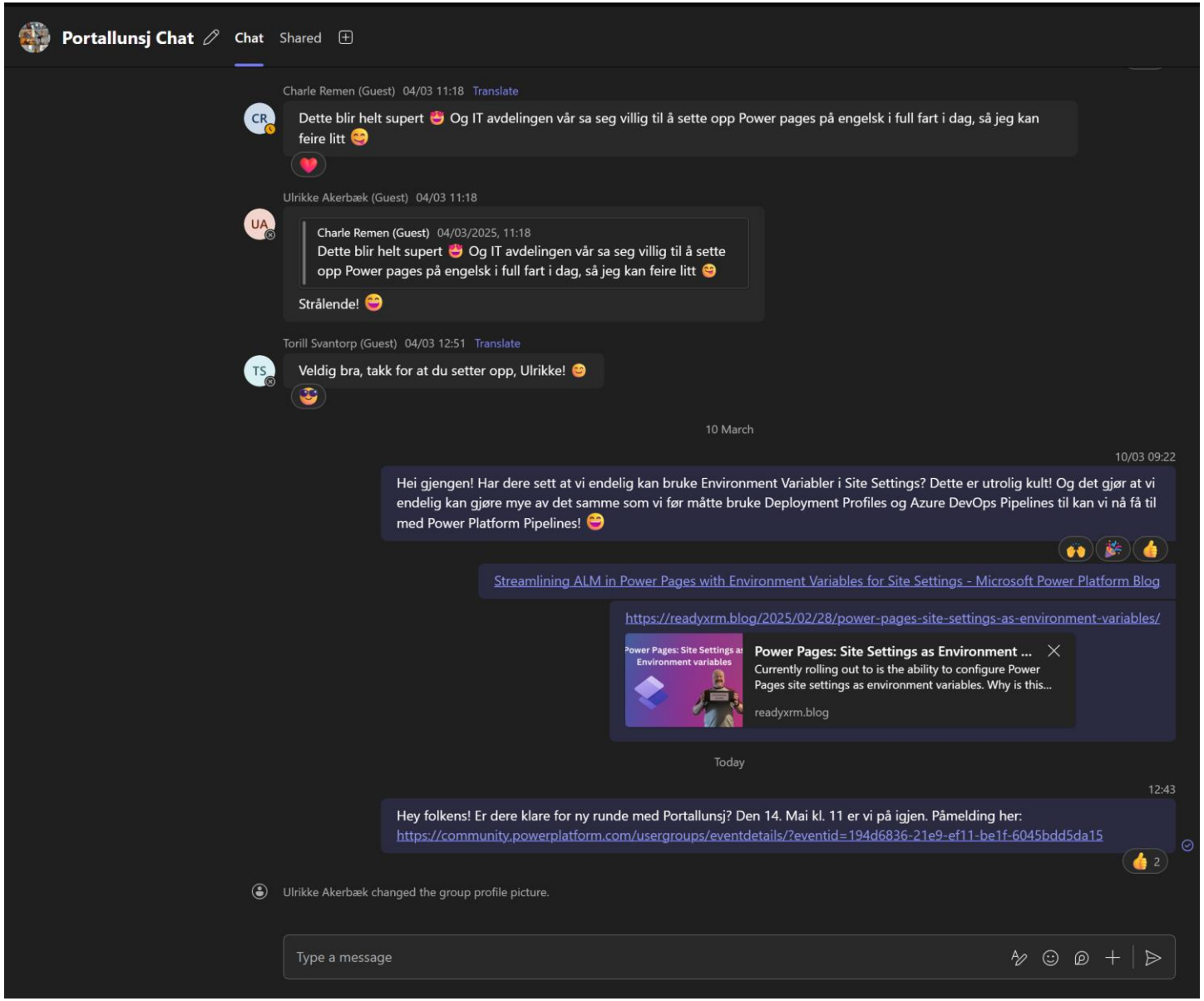
Agenda

- Nyheter
- Ut-av-boksen-tema
- Avansert Tema
- Arrangementer
- Ressurser
- Neste møte

https://community.powerplatform.com/usergroups/details/?groupid=99a2e213-24c2-4800-9fce-41f02bb87caf

Portallunsj CHAT

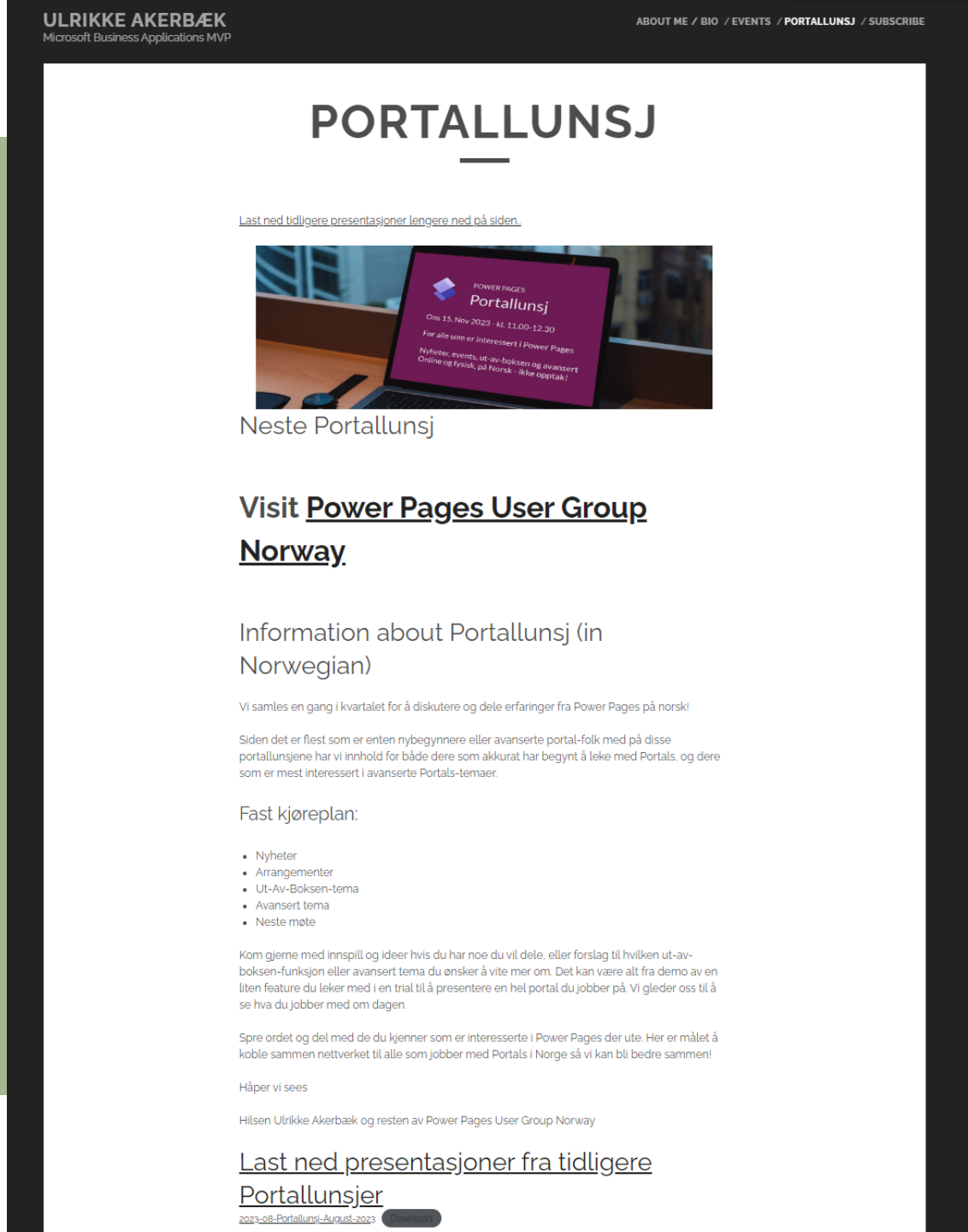
Gi beskjed til Ulrikke så får du invitasjon



Last ned dagens presentasjon

Du kan laste ned dagens presentasjon som en PDF og få med alle klikkbare linker fra

https://ulrikke.akerbak.com/portallunsj



ULRIKKE AKERBÆK
Microsoft Business Applications MVP

ABOUT ME / BIO / EVENTS / PORTALLUNSJ / SUBSCRIBE

PORTALLUNSJ

Last ned tidligere presentasjoner lengere ned på siden.

Neste Portallunsj

Visit Power Pages User Group Norway

Information about Portallunsj (in Norwegian)

Vi samles en gang i kvartalet for å diskutere og dele erfaringer fra Power Pages på norsk!

Siden det er flest som er enten nybegynnere eller avanserte portal-folk med på disse portallunsjene har vi innhold for både dere som akkurat har begynt å leke med Portals, og dere som er mest interessert i avanserte Portals-temaer.

Fast kjøreplan:

- Nyheter
- Arrangementer
- Ut-Av-Boksen-tema
- Avansert tema
- Neste møte

Kom gjerne med innspill og ideer hvis du har noe du vil dele, eller forslag til hvilken ut-av-boksen-funksjon eller avansert tema du ønsker å vite mer om. Det kan være alt fra demo av en liten feature du leker med i en trial til å presentere en hel portal du jobber på. Vi gleder oss til å se hva du jobber med om dagen.

Spre ordet og del med de du kjenner som er interesserte i Power Pages der ute. Her er målet å koble sammen nettverket til alle som jobber med Portals i Norge så vi kan bli bedre sammen!

Håper vi sees

Hilsen Ulrikke Akerbæk og resten av Power Pages User Group Norway

Last ned presentasjoner fra tidligere Portallunsjer

2023-08-Portallunsj-August-2023 Download

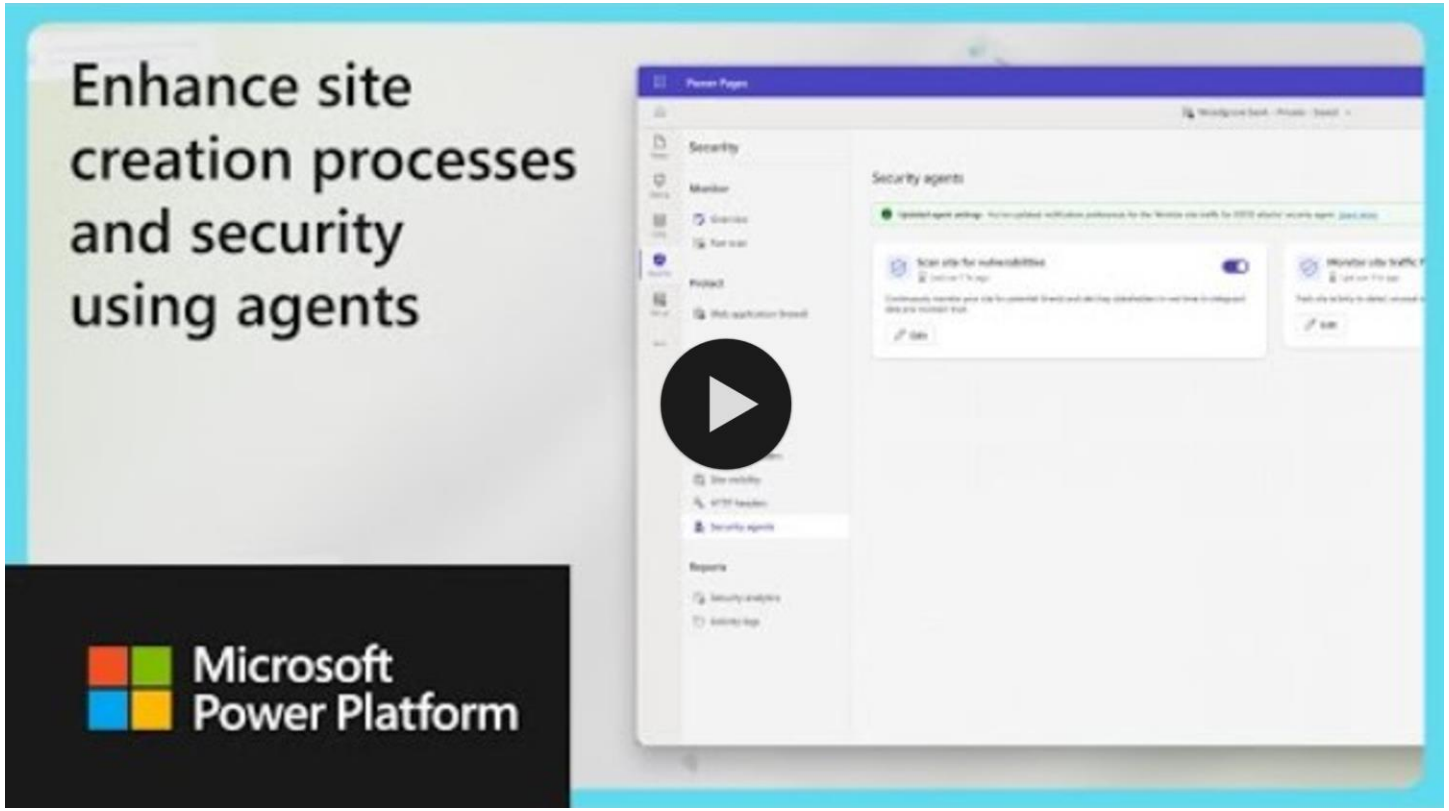
Hva skjer’a?

Spennende prosjekt/case?

Problem? Utfordring? Blocker?

Nytt siden sist

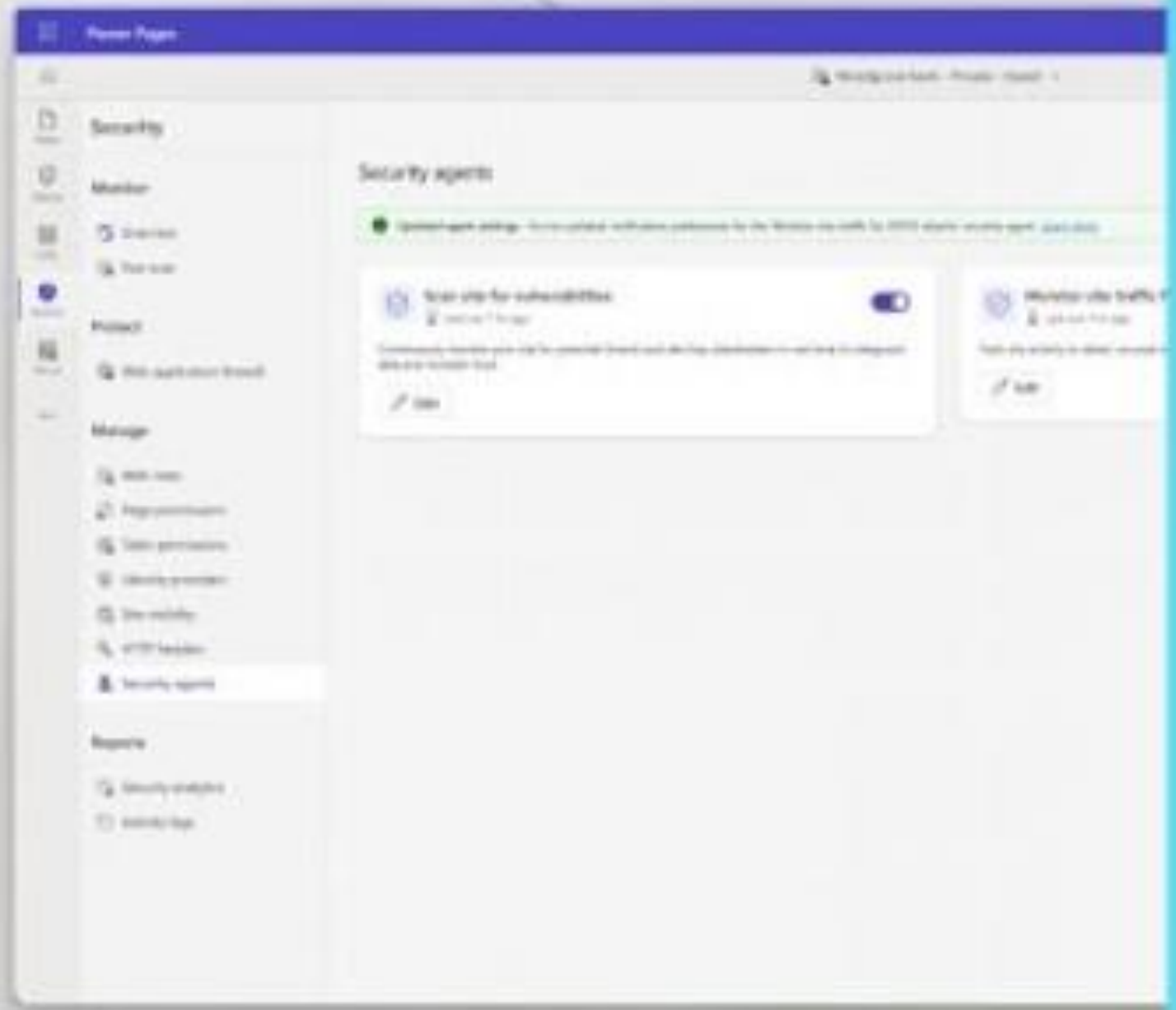
Photo by Diana Light on Unsplash



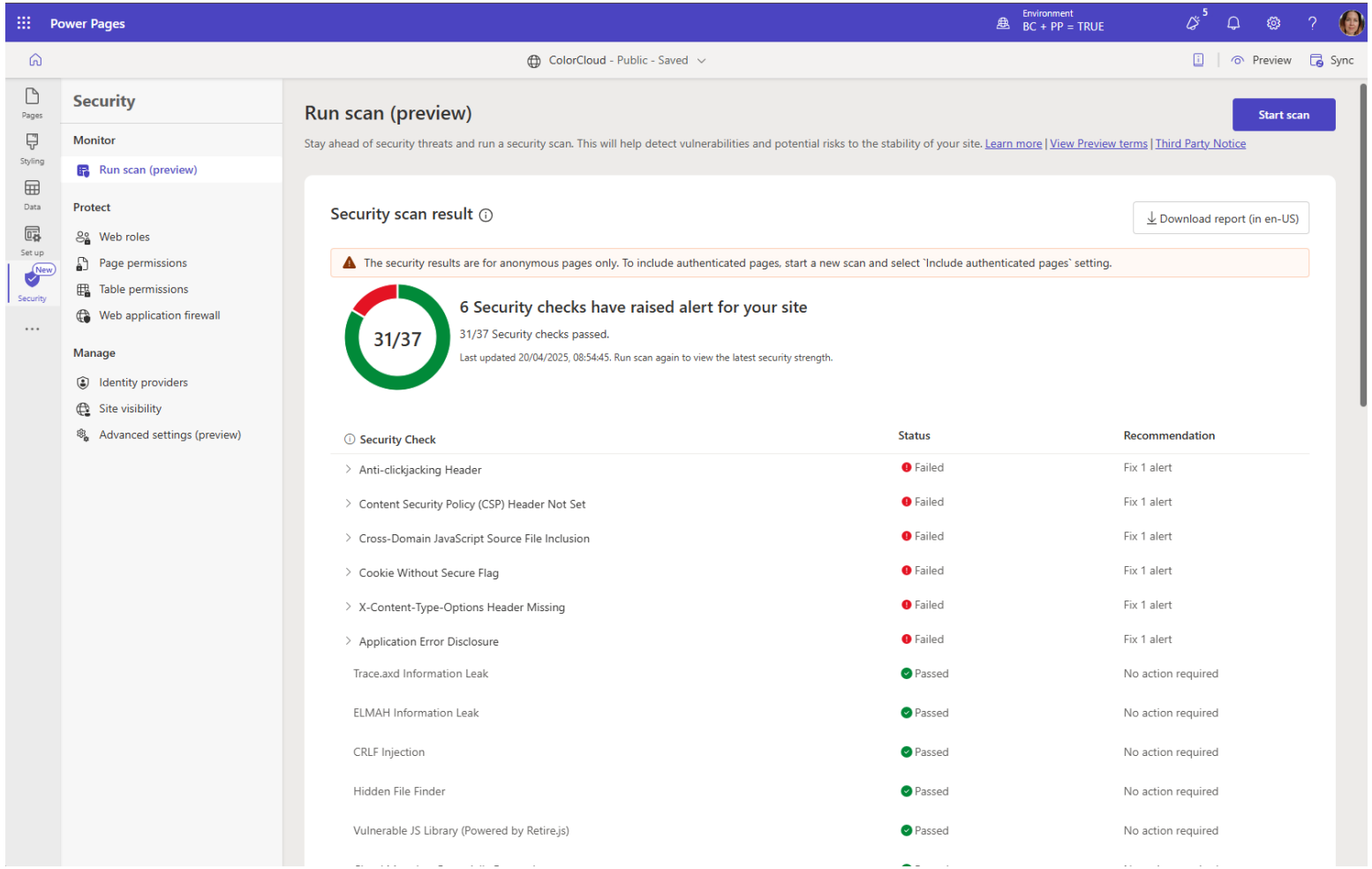
Power Pages 2025 Wave 1 Release Highlights

Upgrade a Power Pages site | Microsoft Learn

Enhance site creation processes and security using agents



Microsoft Power Platform



Deep Security Scan

Run security scan (preview) | Microsoft Learn

Run security scan with Power Pages | Power Platform Shorts

Custom JS with new controls

Enhance modern list with custom JavaScript and new controls

Article • 03/19/2025 • 1 contributor

Feedback

In this article

Business value
Feature details

Important

Some of the functionality described in this release plan has not been released. Delivery timelines may change and projected functionality may not be released (see Microsoft policy). Learn more: What's new and planned

Expand table

Enabled for	Public preview	General availability
Users by admins, makers, or analysts	-	Sep 2025

Business value

You can now enjoy better performance, visual refresh, and styling capabilities with the modern list. These enhancements include custom JavaScript for styling, bringing it to parity with the classic list.

Feature details

The modern list component will now support custom JavaScript, metadata filters, and other features available in the classic list. These enhancements improve performance, visual refresh, and styling capabilities.

Note: The author created this article with assistance from AI. Learn more

Demo Video

Below is a video that demonstrates how these context-specific actions work within VS Code Desktop.

PAC CLI Actions in VS Code

Introducing Actions Pane for Power Pages Sites in VS Code Desktop - Microsoft Power Platform Blog

Hvilke av temaene vil du høre om neste gang?

Skriv i chat ☺

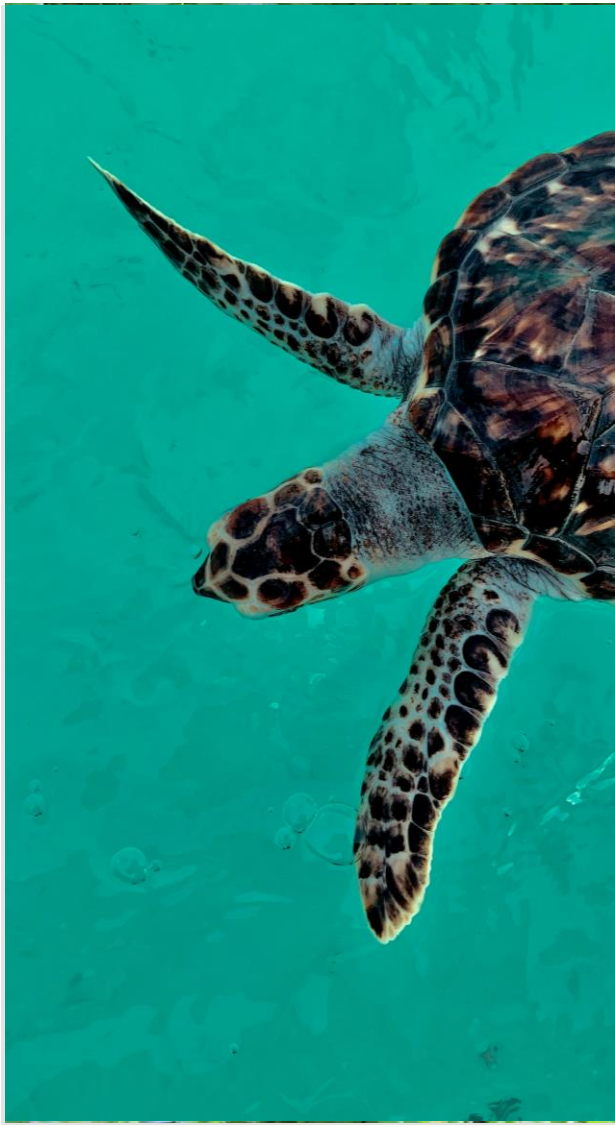


Photo by Naail Hussain on Unsplash

Power CAT Solution Review

Nikita Polyakov

Power CAT
Power Pages CAT Team

Power CAT Solution Review for Power Pages

Do you want Microsoft engineering level confidence on your solution architecture or unblock a problem related to Power Pages websites? We can help!

We can help address up to 3-5 Top Concerns / Blockers for Power Pages

1. We are here because of *this issue* …
2. We can use help rationalization with *this* new feature…
3. We can use help rationalization with *this* new platform change…
4. We need to get Microsoft opinion on *this* solution design item…

Qualifications

Power Pages licensing commitments one or more of:

- 100,000+ Unauthenticated Monthly Active users of Power Pages
- 100,000+ Authenticated Monthly Active users of Power Pages
- $100,000+ USD Power Pages SKU Licenses
- Participation in Customer Evidence motions

Ability to engage remotely:
Current our staff is in East US time-zone, English-only
Onsite travel possible if paid by local Microsoft team or Customer

Review vs Design Clarification:
This a Solution Architecture Review *not* Solution Design

Readiness Prospect (Pre-sale):

- Solution design ready to discuss
- Specific questions or concerns identified
- Partner identified and can join the call

Readiness Project (Post-sale):

- Solution design ready to discuss
- Specific questions or concerns identified
- Technical Project team intact and can attend
- Go live plan identified (dates, users, regions)

Timeline

Typically, a 2 Week Engagement

- Kick off Meeting (1hour)
  - Go over expectations and process
  - Meet the customer and project team
  - Introduce the CAT doing the review
- Solution Review Meeting (~2hrs)
  - Customer and Project team show project
  - Technical staff from project are on the call
  - Pages CAT would ask both technical and business questions
- Processing time (up to 1 week)
  - Time to analyze and review
  - We might follow up with questions
  - Sometimes an extra meeting is requested
- Findings Review Meeting (1-2hours)
  - Attended by customer and project team
  - Pages CAT Review findings, recommendations
  - Pages CAT notes any roadmap or private preview

Output

Power CAT Solution Review Report

- Official Recommendations
- Resources & Education Materials

Power CAT (Customer Advisory Team)
Power CAT Intelligent Applications
Prepared By : Nikita Polyakov

Nikita Polyakov

Principal Program Manager

nikpol@microsoft.com

8yrs at Microsoft :

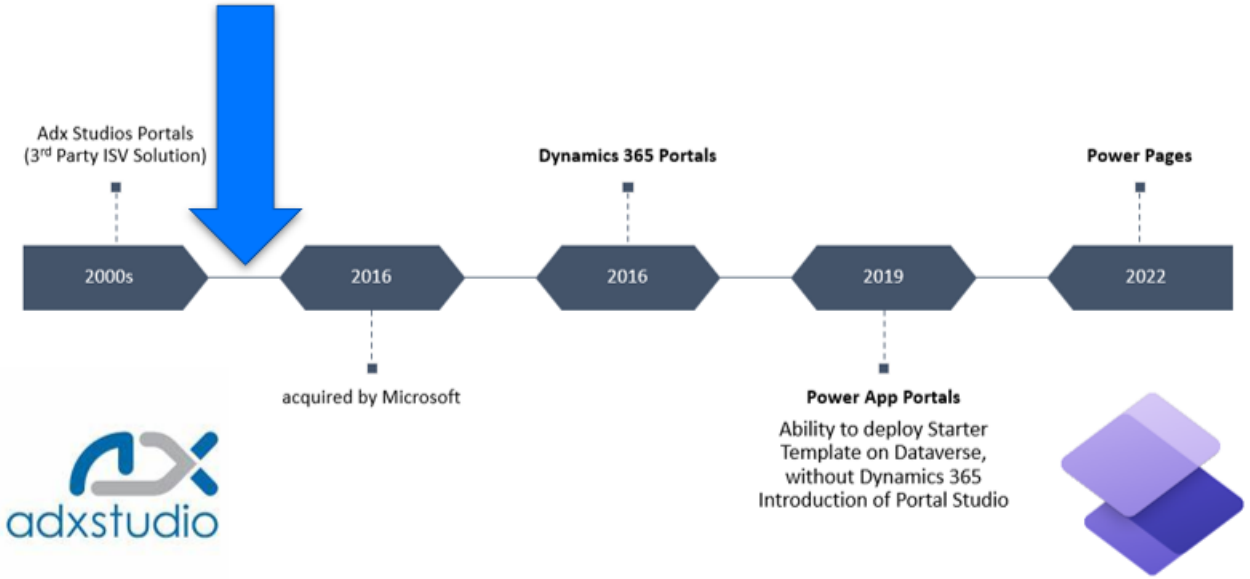
- 5yrs at FastTrack for Dynamics 365
- 3yrs at Power Pages Power CAT

Implementation Consulting at Microsoft Partners:

- PowerObjects
- Tribridge
- AgileThought

Started career as .NET and SQL developer

Worked with this technology since AdxStudio Portals v5



Power CAT

Power Pages CAT Team

Pages Solution Review Report Contoso

Power Pages Solution Review
High-level scoring : *Contoso Portal*

	Review Area
✅	Solution Fit
➖	Architecture Documentation
➖	Geographic Residency
➖	Users & Licensing
➖	Licensing Cloud Capacity
⚠️	Load Testing
➖	Security Testing
➖	Go Live Readiness
✅	Customization
➖	Caching

	Review Area
✅	User Identity
➖	ALM
⚠️	Data Security
➖	Custom Integrations
➖	AI Capabilities
⚠️	Modernization/Migrations
➖	Roadmap Asks

- Legend:
  - ☑ Good
  - ➖ Did not review
  - ⚠ Concern/Risk

Solution Fit

Green

- Solution Fit
  - No concerns

Review Comments:
- Power Pages is a good fit for self-service access to data for this scenario
- Dataverse (Dynamics 365) is used as a data source is a good fit with Power Pages
- Configure, Customize and Custom Code choices were reasonable
- API and Data integration is planned and there are no issues

- Why this is important
  - Solution fit is important
  - Power Pages is a SaaS platform
  - Power Pages integration with Dataverse/Dynamics 365
  - Custom Dev vs Out of the Box

8

Solution Architecture Documentation

Did not review

- Architecture Diagram
  - Not presented for review
- Design Documentation
  - Not presented for review

- Why this is important?
  - This is important so knowledge transfer can happen, new team members and project team shift, and future phase development

Recommendation:
- If absent, please plan to document more complex end to end scenarios
- Process Architecture with data synchronization to other data sources
- Data Model is key to Data Security design and handy during updates or improvements

9

Geographic Residency Limitations

Did not review

- Review Geographical Requirements for this solution
  - Did not discuss

- Why
  - Review for understanding the cloud geography of Power Pages and Dataverse environment and its fixed architecture
  - Review your companies' obligations related to geographies and data residences
  - Consider license portability
  - Create a plan to move any Environments + Website(s) pairs as needed

10

Users and Licensing

Did not review

- Target Addressable User Audience
  - #### Clients with ### Users each
  - #### ### Portal Users
- Users Personas
  - General Public, Customers, etc
  - Internal, B2B, etc
- Monthly Active Users
  - #### Authenticated
  - #### Anonymous
- Seasonal peaks
  - April and October – all users login to ####

- Licensing Purchased
  - Yes
- Licensing Assigned to Prod
  - No!
  - ## Internal Users
- Licensing Size
  - #### Authenticated
  - #### Anonymous
  - ## Power Apps Per User (Internal Users)

Recommendation:
- Assign Licensing to Production

11

Licensing and Cloud Capacity

Did not review

- Relationship between Licensing and cloud capacity
  - During review discussed why load testing is necessary for both parties to know the load and the outcomes
  - Review plans

Why this matters?
- Pages SKU assigned to environment dictates maximum web servers for power pages websites.
- Not assigning capacity is against licensing agreement and can hurt end user experience

Recommendation:
- Ensure correct licensing is assigned to the Production environment
- Monitor using Pages filters in the NEW Licensing Dashboard in PPAC

12

Caching

Did not discuss

- Configuration Cache
  - Discussed, see ALM section
- Repeat Read Data Cache
  - Did not discuss, but there is follow up Q

Why is this important?
- Config Cache is key to daily inner dev loop of makers
- Data cache awareness is critical in certain use-cases where data might appear stale to website users after the initial viewing

Recommendation:
- Awareness for performing demos and testing and work-arounds to shorten the wait time
- Awareness for production use cases

13

Load Testing

Did not review

- Load Testing Performed
  - No
- Load Testing Planned
  - Discussed providing more information
  - As of XXXX 2025 not yet completed

Why is this important?
- There is no SLA on final performance of resulting projects due to configuration and customization possibilities – no one web page is same.
- See Cloud Capacity section

Recommendation:
Perform Load test for Seasonal Peak
Engage with CSA for Load Testing
Coach Group Registration was mentioned to be of interest

14

Security Testing (Web App Security)

Did not review

- Pages Deep Scan (Preview 2024)
  - Not Reviewed
- 3rd Party / Own ITSec Scanning
  - Did not discuss in the review

Why is this important?
- Settings like X-HTTP-FRAME and other XSS settings need to be setup to meet modern security postures.
- Have ample time. Addressing some of these items might take time (research/understand, remediate, re-scan/review results, meetings)

Recommendation:
Run Power Pages Deeps can (commercial cloud only)
Please review obligations and leave room to remediate via Pages security settings or code changes
If any Pages platform Security bugs suspected submit via MS Support Ticket directly.

15

Go Live Readiness

Did not review

- Go Live Check-list Plan
  - Did not review

- Don't leave this planning to the end. You want to consider internal, external and end-customer communication plans.
- Example: Who will buy the custom domain and SSL?

Recommendation:
- Have a Go Live plan that includes roles and responsibility, backups and expected task time
- Go Live Plan should have a dry-run planned to validate deployment task times are accurate
- Please advance coordinate Go Live schedule with Microsoft / Power CAT

16

Customization

No Concern | Common

Beautiful!

- Configure, Customize
  - No concerns with extended native grids and forms
  - OK to use Basic Forms chained when Multi-Step is not a fit
- Customization
  - Customized UX of the native List on Orders page via CSS & jQuery
- Custom Code
  - OK to have custom code to meet requirements where native controls do not exist
    - Example: Remove My Order Pickup Checks
    - Dashboard consider perf impact of using liquid since this page will be high traffic and first only experience for users

Recommendation:
- Do Document where both Customization and Custom code customizations are
- Keep in mind that you want regression testing for customized experiences, test monthly using Early Upgrade
- Evaluate when to use server side Liquid against client-side Web API – for high traffic web pages – there is a perceived performance difference to the end-user

17

ALM

Concern

- Current ALM Usage
  - Did not review
- ALM via PAC CLI
  - Did not review
- ALM via Solutions
  - Did not review

Why is this important?
- It's vital for developer productivity
- Also source control is critical to be able to revert back or look at code changes over time

Recommendation:
- Source Control between environments, so that code changes can be tracked over time
- Deployment automation option to help automate moving of the website, faster and more dependable

18

User Identity

No Concerns

- User Identity Providers
  - AAD B2C
- Local Auth
  - Not using

Why is this important?
- A real IdP is best for all users
- Local Authentication will be deprecated in future by Microsoft and is not a real IdP which another website can re-use

Recommendation:
Review roadmap for Entra External ID migration deadlines, as it becomes clear
Power Pages support for EEID is very close to ready

19

Data Security

Concern

- Web Roles Reviewed
  - Only 1 default web role
- Table Permissions Reviewed
  - Review Global scope in Table1/Table2
- Web API columns set
  - Specific columns listed

Why is this important?
- Table Permissions and Web Roles drive the most important aspect of Pages website – users access to data, misconfiguration here can lead to data exposure.

Recommendation:
Global might not be a concern if **business requirement** is to have this ability for brokers
Web API does not need a separate Web Role - API uses run-time user data permissions
Why have Table Permission for adx_* tables? This would be concern for Migration to EDM
Ensure Default web role and default Authenticated web role permissions are appropriate

User & Data Security Checklist for Power Pages sites

- ❑ Anon Homepage on Login-only site?
- ❑ Navigation hidden but still active live pages make sense? Ex: Contact Us
- ❑ If 1 Login method is Login Page needed? Consider Set as Default
- ❑ Identity configuration make sense / Local Login disabled?
- ❑ Default Web Role permissions make sense / Discuss Open Registration setting
- ❑ Check Web Role common misconfiguration with 1+ defaults Anon/Auth
- ❑ Web Role changes after user logged in? Discuss cache impact re-login / alternatives
- ❑ Table Permissions with Global scope are elevated as risks to review meeting biz requirements
- ❑ Same table for same web role – review for unnecessary/ duplicates – consolidate
- ❑ No Web API specific Web Roles – explain how API uses Users actual access
- ❑ Web API column scope set to * is a risk, use specific columns
- ❑ Web API - use column permission as needed Ex: Read-only for 'Application Status' column
- ❑ General: No code should be do data security trimming – start with Table Permissions 1st

Custom Integrations

No Concern

- Custom Integrations
  - Document Signing
  - PDF generation & attachment
  - Contoso API Foo
  - Azure SQL to Virtual Table

Recommendation:
- Please document anything not out of the box for knowledge transfer and maintenance

AI Capabilities

Did not review

- AI chatbot capabilities "Site Copilot"
  - Did not review
- AI Search Content & Data "Gen AI Search"
  - Did not review
- AI Summary Pages Content "Gen AI Summary"
  - Did not review
- AI List Summarization "List AI Summary"
  - Did not review
- AI Form Filling "Form AI assistance"
  - Did not review
- AI API "Power Pages AI Summarization API"
  - Did not review

- Why this matters?
  - AI is forefront for many organization
  - Its essential to review how AI can help benefit the end-users and the organization
  - Happy to help review use-cases
  - Can make direct connection to Engineering for your feedback and roadmap session

Recommendation:
- Evaluate for any solution fit

The 4 things are to review in each site are:

1. What ways can a user login (or not)
2. What users get to do right away
3. What tables have full Global access
4. Web API enabled & which columns

Most common minstake seen in the wild..

Most common minstake seen in the wild..

700 XP

Set up Power Pages security

47 min • Module • 6 Units

Feedback

Intermediate | App Maker | Functional Consultant | Developer | Microsoft Power Platform | Power Pages

Note

App in a Day instructor-led training

Continue your learning journey with the App in a Day instructor-led workshop. This course provides hands-on experience for building custom apps! Browse training events.

The concept of exposing Microsoft Dataverse on a public webpage is appealing for addressing numerous business requirements. However, careful consideration is necessary to avoid exposing private or sensitive data. This module focuses on helping you learn about and set up website security to protect static and dynamic content and limit visibility to specific audiences.

This module helps prepare you for Exam PL-200: Microsoft Power Platform Functional Consultant.

Learn content

Set up Power Pages security - Training | Microsoft Learn

Tutorial: Display data securely on your site | Microsoft Learn

Pages Pro Dev In a Day

Power CAT

Theoretical & Practical Hands on Lab

Duration: 1 Day [Remote / Onsite]
Difficulty: 200 - 300

Description

With Power Pages apart of the Power Platform - anyone can build an enterprise trusted and secure low-code website quickly. This hands-on workshop with labs is designed for advanced makers and pro developers to understand how extend Power Pages sites with custom code and leverage more advanced product capabilities and features.

Objectives

- Configure Site Content
- Configure Site Security
- Extend the core product functionality with code as an advanced maker or pro developer.
  - Understand Pro Developer tooling options
  - Understand Liquid Templates
  - Understand how to leverage HTML/CSS and JavaScript
  - Understand Concepts of the Power Pages Web API

Outcomes

- Learners will be able to understand core capabilities of Power Pages and Dataverse by successfully extending a data driven website by leveraging Power Platform Developer tools.
- Learners will be able to identify when their organizations can benefit from using Power Pages sites for their business use cases.
- Learners will have a better understanding of extending vs configuring or going completely custom code route.

Course Material

Introduction & Agenda
Prerequisites (*Strongly Recommended to complete this setup pre-work*)
Module 01: Getting Started with Power Pages development
Module 02: Getting Started with Power Pages Developer Tools
Module 03: Build Wizard Driven Processes with Multi Step Forms
Module 04: Extend Forms with Client-Side JavaScript
Module 05: Extend Pages Components with Liquid + JavaScript
Module 06: Dynamically Render Data Components with Liquid
Module 07: Query Data with Liquid Fetch XML as Custom Site Component
Module 08: Perform CRUD Data Operations with Web API Part 1
Module 09: Perform CRUD Data Operations with Web API Part 2
Module 10: Leverage Reusable PCF Code Components Controls

Use Case

CONTOSO COFFEE
Perfection is brewing.

Contoso Coffee is a distributor for coffee and espresso machines. Contoso is partnered with several different supplier companies. When an order is placed, the supplier either emails or calls Contoso Coffee's office to update order statuses and confirm a shipping date.

Contoso needs a portal where their suppliers can login and update machine orders themselves and for direct consumers to submit purchase requests as an individuals.

In this workshop, attendees will build Contoso Coffee's supplier portal using Power Pages.

** Contoso Coffee is a fictitious use case company for lab purposes.

Requirements

This course has been designed for advanced makers and pro-developers who have some experience building apps and websites. Some experience with Power Apps and Power Pages can give you an advantage in navigating the labs, but it is not required.

'Power Apps In a Day' training:
https://aka.ms/AppInADay
'Power Pages In a Day' training:
https://aka.ms/PowerPagesInADay

Participants Personas
- Advanced Makers
- Pro Code Developers

Time Commitment
- One full-day engagement

Recommended Skills
- Understanding of Power Platform
- Experience with Dataverse Concepts: Tables, Forms, Views, Relationships, Cloud Flows
- Basic Web Development Concepts

Technical Participant Delivery Requirements
- Google Chrome or Microsoft Edge (latest version recommended)
- Windows 10 or later, macOS 10.13 or later
- Machine or access permissions to install Power Platform Dev tools

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Microsoft

Power Pages PRO Dev In a Day

Some new things that I learned from Nikita!

- When you hit the “Prewview” button in the designer
  – cache is cleared –
  you don’t have to click on «Desktop»

- WebAPI permission follows the permissions of the logged in user
  – so you don’t need a specific web role for it –
  And it can handle «Contact Scope» top table permission node

- Performance is more often due to data retrieval

- Performance will increase in Prod vs. Test – but not enough to fix bad data retrieval practices

Learn / Power Platform / Power Pages /

Power Pages white papers

Article • 17/10/2023 • 4 contributors

Feedback

White papers provide information about Power Pages at a deeper level. Here you can find a list of available white papers for Power Pages.

Expand table

White paper	Description	Date
Architecture white paper	This white paper provides a comprehensive view of the capabilities of the Power Pages platform. It describes the architectural elements that enable Power Pages to scale, offer high reliability and availability, and protect business data to offer enterprise grade compliance and security.	October 2022
Security white paper	This white paper describes how Power Pages offers enterprise grade security and the tools and capabilities it offers for administrators and makers to harden security for their external applications.	October 2022

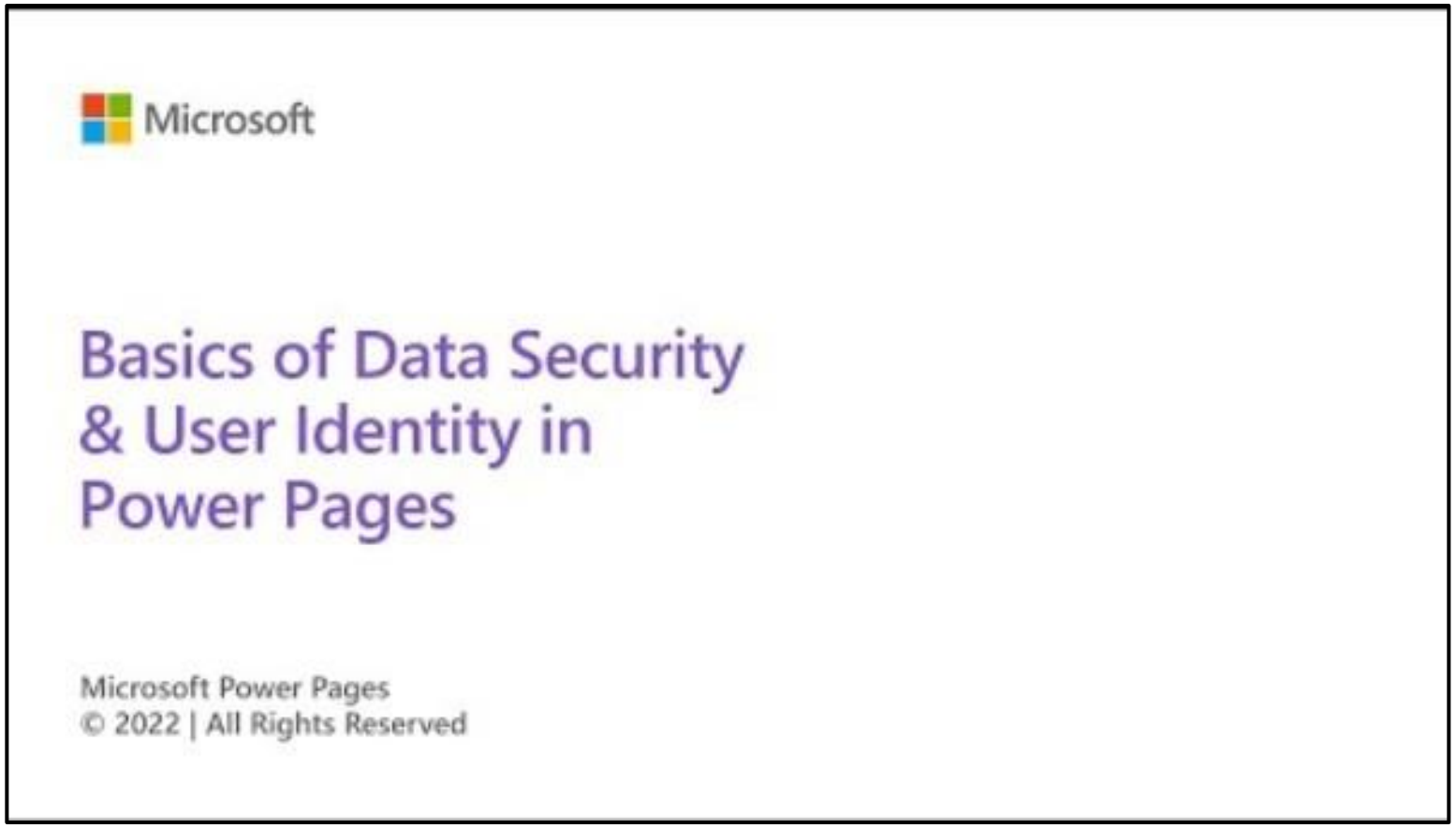
See also

Power Platform white papers

White Papers

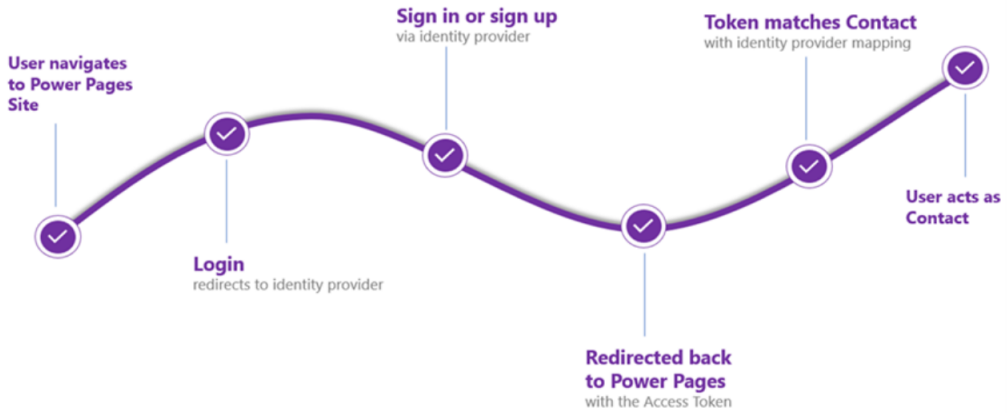
Power Pages white papers | Microsoft Learn

Introduction to Table Permissions, Web Roles, User Identity



Introduction to Table Permissions, Web Roles, User Identity | Microsoft Power Pages

Standard Sign-in flow:



To configure the external identity provider, please refer to the following docs.

- https://learn.microsoft.com/en-us/power-apps/maker/portals/configure/configure-portal-authentication
- https://learn.microsoft.com/en-us/power-apps/maker/portals/configure/use-simplified-authentication-configuration

Registration Flow: After selecting the identity provider (derived from the type of audience), the next step is to define the registration flow. There are a few options available to register the users.

Open Registration: Any one can visit the Power Pages and register themselves using the identity provider registration flow. The following site setting would enable the open registration.

- Authentication/Registration/OpenRegistrationEnabled – true

This is the most common for B2C portals like creating a portal for external customers. In this approach any user can login to portal if they have a valid account with the identity provider used. For example, If Facebook is enabled as auth provider, anyone with Facebook ID can login or they can register a new account of Facebook and register.

Identity Strategy for Power Pages

from Dynamics FastTrack

Skal vi kjøre en Power Pages Assement?

Send meg en melding så skal du få tilsendt materialet

Photo by David Courbit on Unsplash

Agents i Power Pages

Avansert Tema

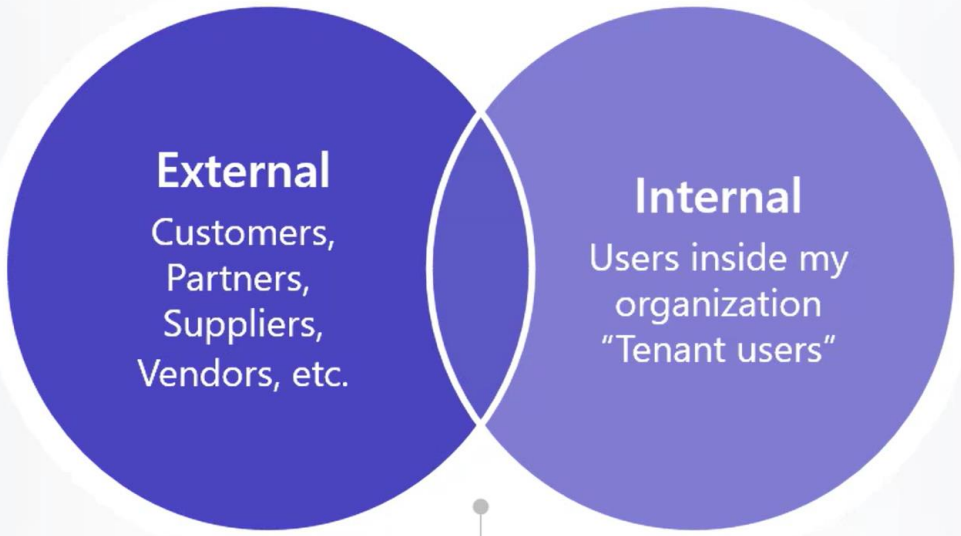
Photo by Randall Ruiz on Unsplash

Power Pages differentiation in Power Platform

User audience needs and their respective options

Historically requires traditional application development, few ready-made solutions

- Public/Anonymous External Users ✓



Workplace productivity
Low Code Citizen Dev
Ready-made solutions

- ✗ Public/Anonymous External Users
- ✓ Internal Users

Power BI | Power Automate | Power Apps | Dynamics 365 | Office 365

Able to address all user audiences:

Power Pages | Copilot Studio | Power BI Embedded

Use-cases by industry

Public Sector

- Citizen Self Service (311)
- Applications/Grant processes
- Permits and Licenses
- Public FAQ

Financial Services

- Insurance Agent Portals
- Customer Onboarding (Customer Journeys)
- Appointment Booking
- Loan Applications

Education

- Student Self Service
- Alumni Portals
- Event Management Websites
- Parent Portals

Retail & Manufacturing

- Partner Onboarding
- Supplier Interactions
- Customer Feedback
- Employee/Supplier Check-ins

Non-Profit

- Volunteer Management
- Course Registrations
- Donations
- Applications

High Tech Software

- Online Documentation/KB
- Feedback/Ideas Portals
- B2B Customer Service for Clients
- PRM for partner-based selling

Overall Patterns

Forms & Applications
- Contact Us page
- Feedback gathering
- Information Request
- Submit Claim
- Visa application

Data & File Self-Service
- Care Self-Service
- Order or Invoice Management
- Support Ticket Management
- Government Citizen Services
- File upload/download

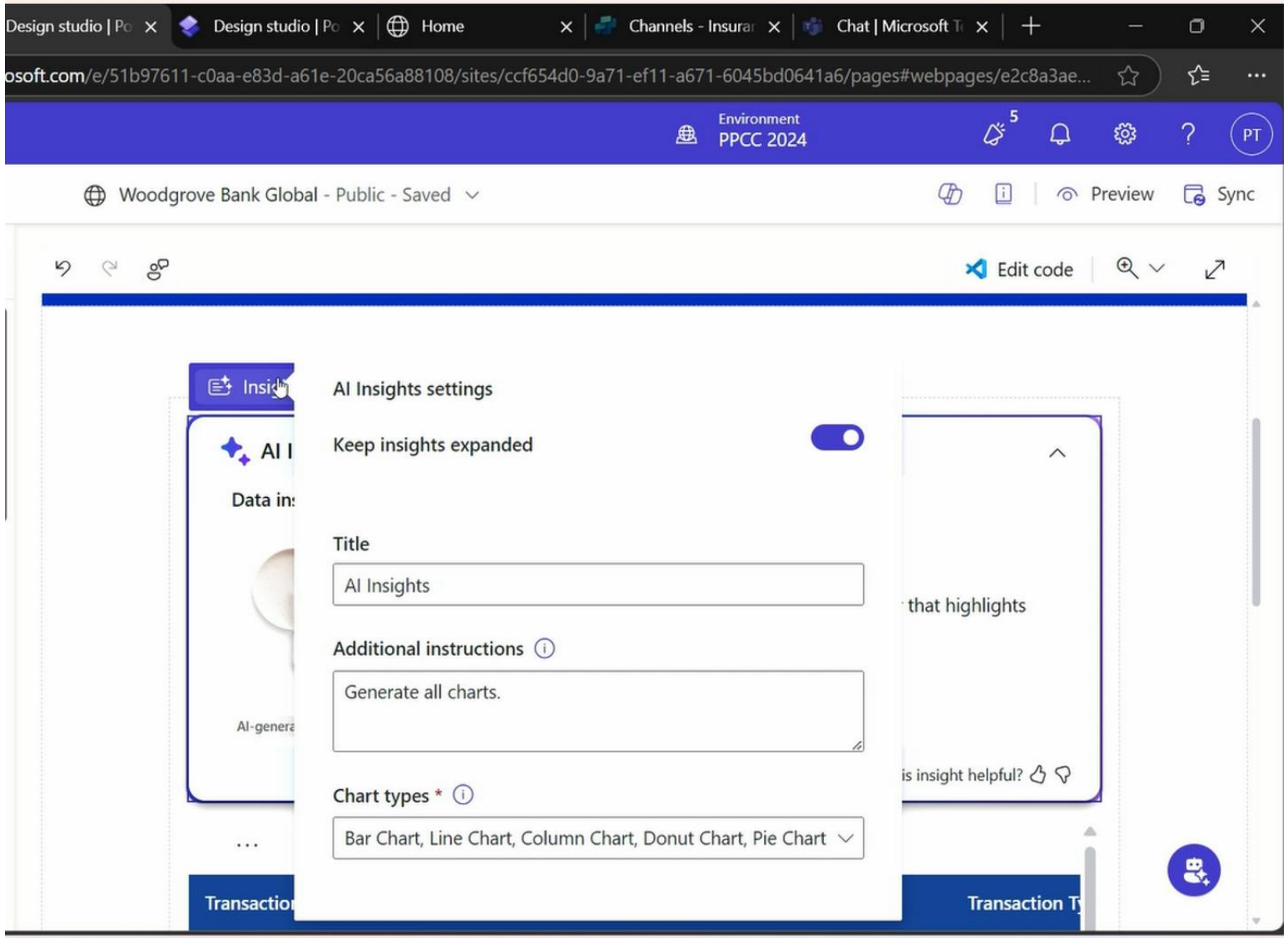
Online Documentation
- FAQ Sites
- Knowledge Base
- Investor information

Onboarding Portals
- Partner or Supplier Registration
- Employee Pre-Onboarding
- Customer/Product Registration

Event Management
- Event information
- Registration for Events
- Online Appointment Booking

Employee Self-Service
- HR Employee Portals
- ITSM Self-Service

Build Next-Generation Intelligent Portals with AI and Power Pages



InPrivate | Account Trans | Home · Custo | Design studio | Design studio | Home | Channels - Ins | Chat | Microso
https://woodgrovebankglobal.powerappsportals.com/copilot-results?entityName=cr363_financialtransactionrecord1&fetchXml=ZECPkrvxctT%2fVkunIaFRhf...

Search

Download

Transaction ID	Customer ID	Transaction Description	Transaction Amount	Transaction Type	Date
87654321	Veronica Quek	Grocery Store	$125.50	Debit	12/31/2023
87654334	Veronica Quek	Grocery Store	$78.90	Debit	1/14/2024
87654345	Veronica Quek	Grocery Store	$110.30	Debit	2/3/2024
87654353	Veronica Quek	Grocery Store	$135.00	Debit	2/11/2024
87654359	Veronica Quek	Grocery Store	$88.45	Debit	2/17/2024
87654361	Veronica Quek	Grocery Store	$90.50	Debit	2/29/2024
87654372	Veronica Quek	Grocery Store	$89.50	Debit	3/11/2024
87654378	Veronica Quek	Grocery Store	$95.20	Debit	3/17/2024
87654385	Veronica Quek	Grocery Store	$112.30	Debit	3/24/2024
12345601	Veronica Quek	Grocery Store	$85.30	Debit	4/1/2024

- The **lowest transaction amount** was **$5.75** on June 13, 2024.

These insights suggest a regular spending pattern on coffee shop purchases with slight variations in transaction amounts and frequency across different months.

AI-generated content may be incorrect

Did you find this insight helpful?

Download

Recent Credit Card Transactions

Transaction ID	Transaction Description	Date	Transaction Type	Transaction Am
87654322	Coffee Shop	1/1/2024	Debit	$8.75
87654338	Coffee Shop	1/18/2024	Debit	$6.50
87654351	Coffee Shop	2/9/2024	Debit	$7.95
87654362	Coffee Shop	3/1/2024	Debit	$12.20
87654374	Coffee Shop	3/13/2024	Debit	$8.25
87654387	Coffee Shop	3/26/2024	Debit	$7.50
12345604	Coffee Shop	4/4/2024	Debit	$7.25
12345615	Coffee Shop	4/15/2024	Debit	$6.80
12345630	Coffee Shop	5/1/2024	Debit	$8.50

Woodgrove Bank Global bot

1 reference

1 woodgrovebankglobal.pow...

33 minutes ago

average transaction amount in grocery store

Just now

The average transaction amount in a grocery store is $104.44 [1].

1 reference

1 woodgrovebankglobal.pow...

Just now

Type your message

Bot responses a Chat window so inaccuracies are possible

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https://adatuminsurance.powerappsportals.com

Learn more >

Get the financial freedom you deserve!

Explore the different products we offer to gain financial peace of mind for your famil

Health Insurance

Dental Insurance

Insurance Agent

What is your Full Name?

29 minutes ago

exit

29 minutes ago

Escalating to a live agent is not currently configured for this copilot, however this is where the copilot could provide information about how to get in touch with someone another way.

Is there anything else I can help you with?

29 minutes ago

Type your message

Bot responses are AI-generated so inaccuracies are possible.

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https://make.preview.powerpages.microsoft.com/e/51b97611-c0aa-e83d-a61e-20ca56a88108/sites/6abae549-c75c-40f7-8a8f-4ac4a9e84394/pages#webpages/5...

Power Pages

Environment
PPCC 2024

5

PT

Adatum Insurance - Public - Saved

Preview | Sync

Pages
Styling
Data
Set up
New
Security

Pages

+ Page

Main navigation

- Home
- For Individuals
  - Auto Ins... PT
  - Dental Insurance
  - Health Insurance
  - Pet Insurance
- For Companies
- My Claims

Other pages

- Access Denied
- My Auto Insurance Quot...

The data displayed in your site can be seen by anyone. If that's not what you want, change or eliminate the "Anonymous" role in your table permissions. Learn more

Manage table permissions

Unable to render native controls Learn more

Edit code

tailored to your needs.

Edit form | Edit fields | Permissions | Agent | ...

Customer Name

Email

Car Make

Pages
Styling
Data
Set up
New
Security

Pages

Main navigation

- Home
- For Individuals
  - Auto Ins...
  - Dental Insurance
  - Health Insurance
  - Pet Insurance
- For Companies
- My Claims

Other pages

- Access Denied
- My Auto Insurance Quot...

...us" role in your table permissions. Learn

Manage table permissions

Edit code

Add Agent Preview

Agent Details | Security | Review and Confirm

Insurance Agent

Agent description

Based on user input choose a appropriate topic from these:
Copilot Car Insurance Lead 7ecc: This form is used to submit the auto insurance claim from the user.
Copilot Health Insurance Lead 2cc6: This form is used to submit the auto insurance claim from the user.
Auto Insurance Claim Form: Provide information for submitting an insurance claim.

Channels

- Adatum Insurance website.
- Adatum Insurance agent.

Agent Guidelines

The agent uses various instructions, actions, topics, and knowledge sources to automate your business process. Some of these have already been created for you which can be viewed and modified in Microsoft Copilot Studio.

Edit in Copilot Studio

Continue | Cancel

InPrivate
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Design studio
Home
Channels - Ins
Chat | Microso
https://adatuminsurance.powerappsportals.com

Get the financial freedom you deserve!

Explore the different products we offer to gain financial peace of mind for your famil

Health Insurance

Comprehensive coverage tailored to your needs. Enjoy access to a wide network of providers, preventive care services, and

Dental Insurance

Covers the cost of dental care, including routine check-ups, cleanings, and necessary procedures. It provides peace of mind and

Provides f
medical cos
conditions. I

Insurance Agent

get a quote for car insurance

Just now

Great choice! Let start with your details...

Adatum auto insurance: trust...

What is your Full Name?

Just now

Type your message

Bot responses are AI-generated so inaccuracies are possible.

Hva har egentlig skjedd nå?

- Lag en agent I Copilot Studio
- Legg den til i Power Pages (ikke omvendt)
- Brukere autentiserer mot dem gjennom siten
- La agenten ta imot data og fyll inn i Dataverse
- Legg til agent på skjema og få en turn-based-utfylling
- Eller: MCP server + A2A protokoll = <3

PowerBI, Copilot og Power Pages er grensesnitt mot verden

Arrangementer

Photo by Jeremiah Del Mar on Unsplash

Power Summit 2025

24. Mai

London

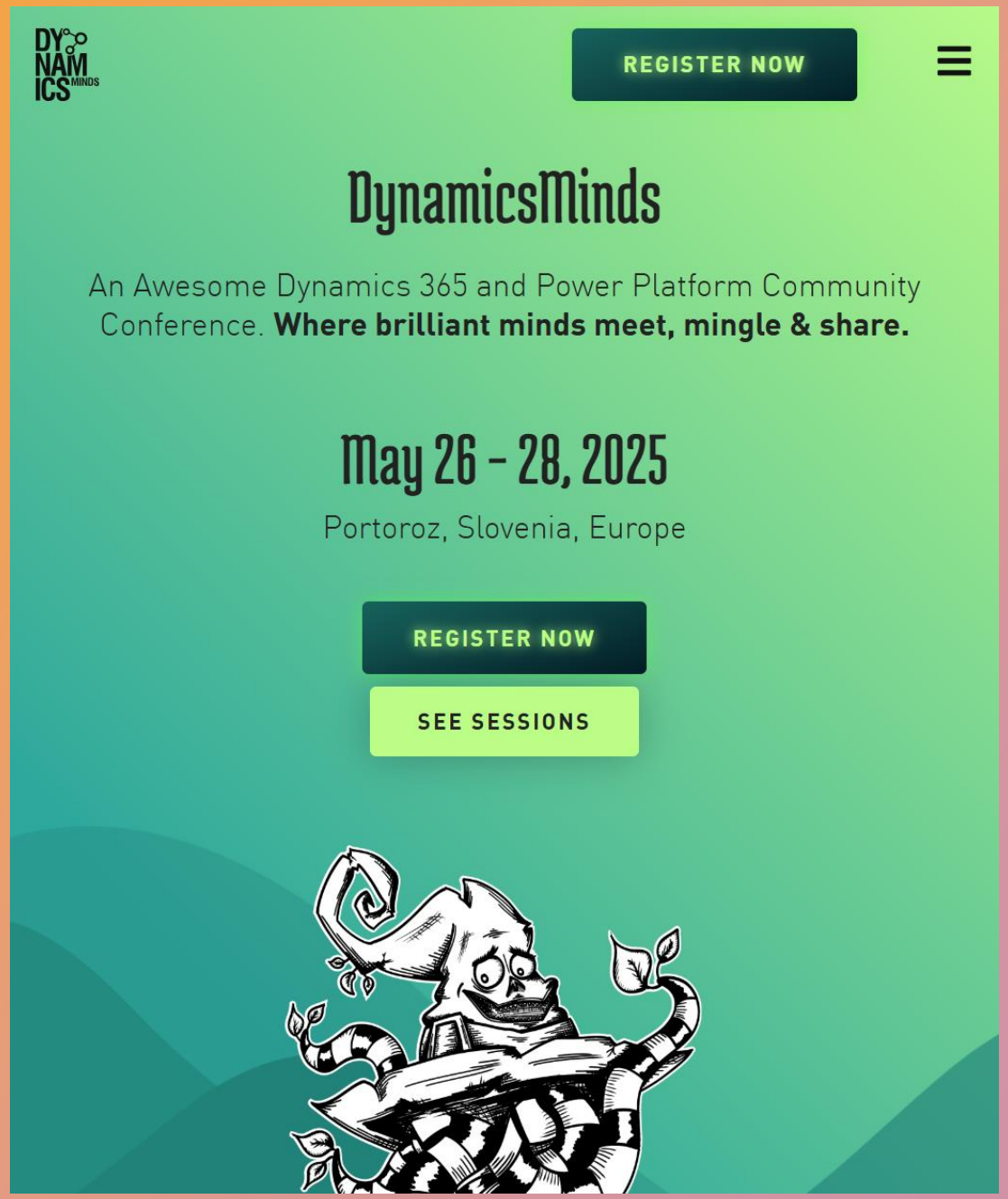
[Power Summit – Power Platform Developer Community Bootcamp]

DYNUG – Vårfestival

26.-27. Mai

Microsoft, Oslo

DynUG Vårfestival

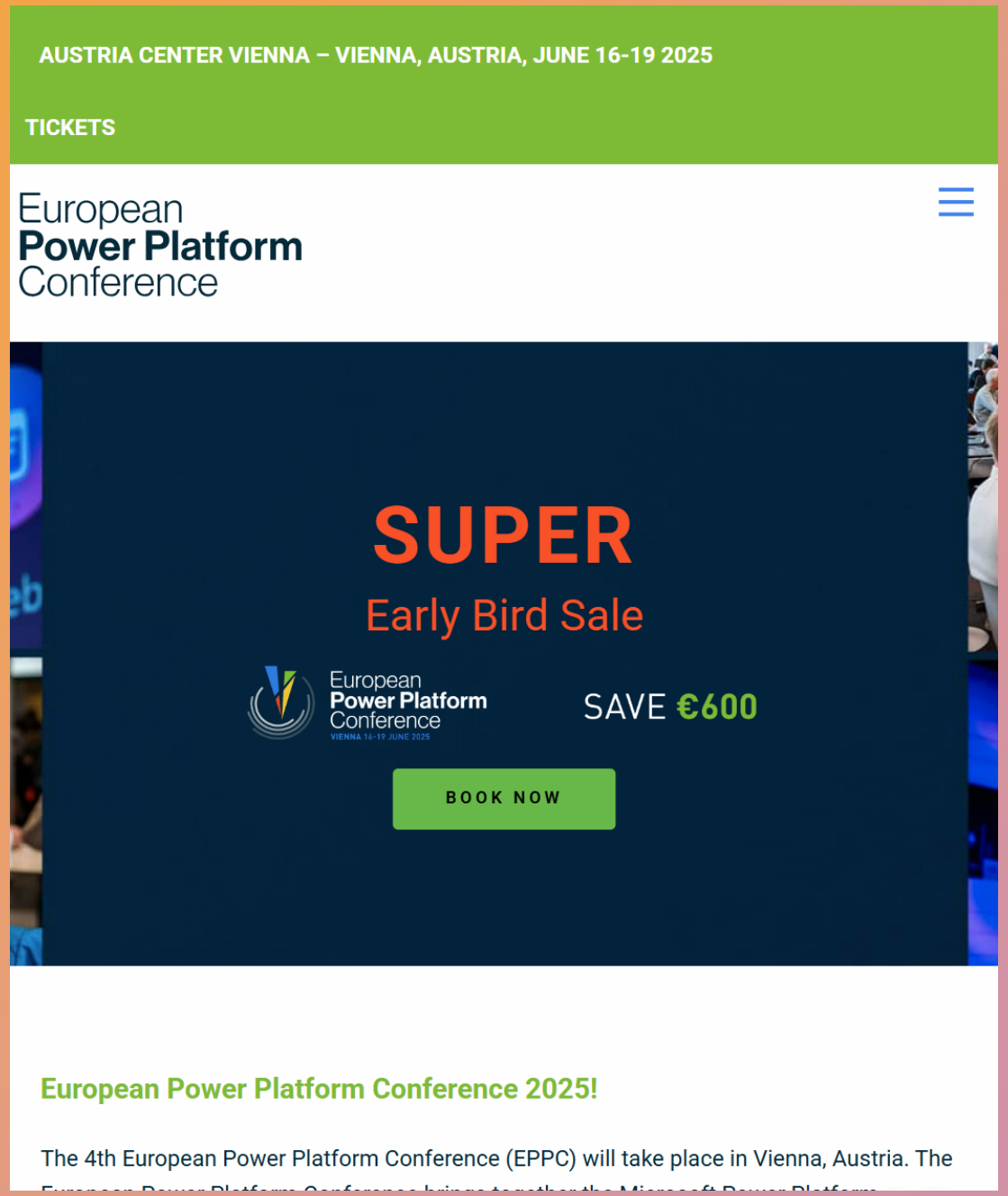


Dynamics Minds

26-28. Mai

Portoroz, Slovenia

DynamicsMinds Conference 2025



EPPC

16-19. Juni

Wien, Østerike

“Boost” = 200 Euro discount per billett

European Power Platform Conference | Austria | Jun 16-19, 2025

Ressurser

Verdt en titt for portalfolk

Photo by Marcus Dietachmair on Unsplash

Video

AI Power Pages

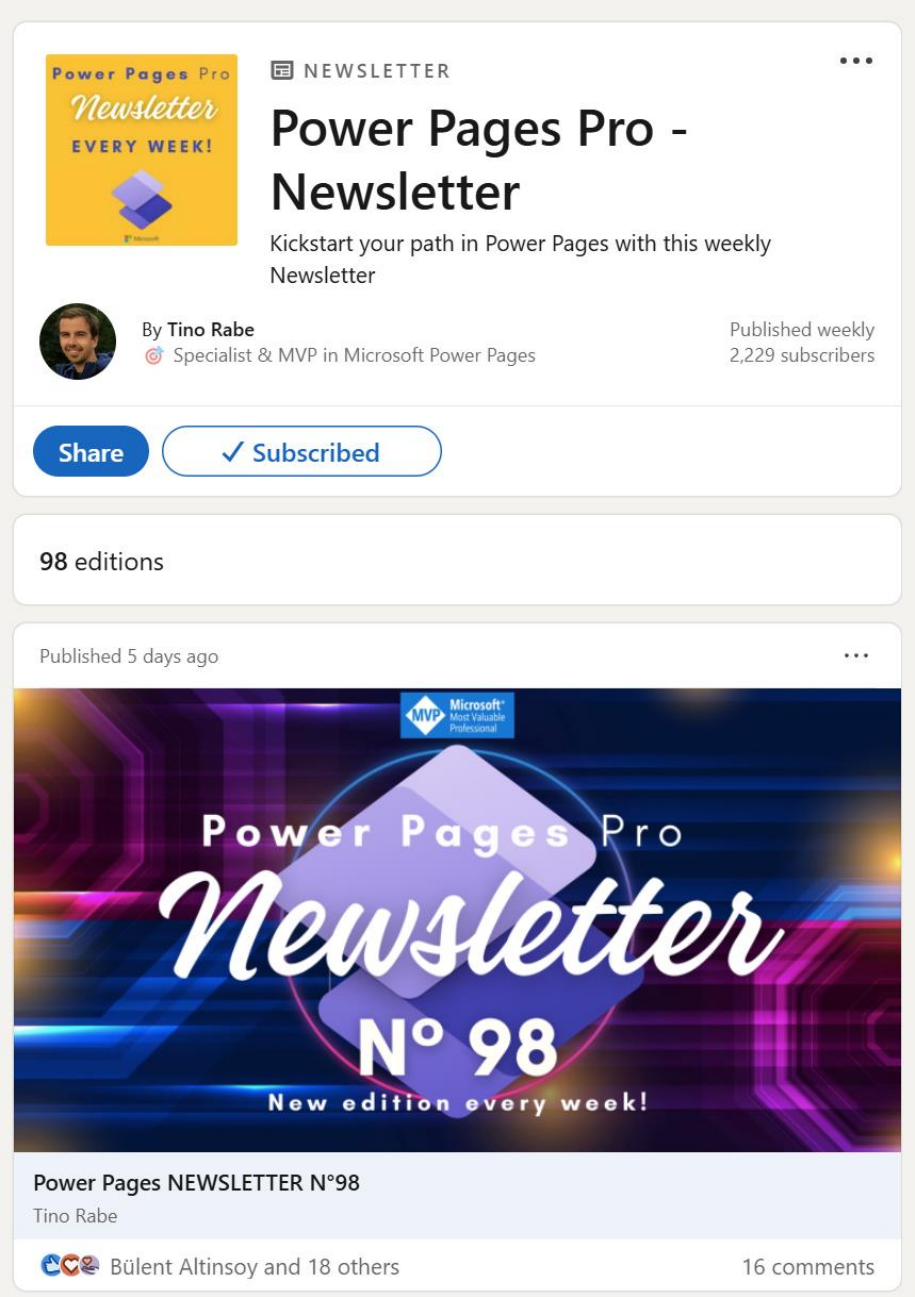
Victor Dantas
at Powerful Devs

5 ways to leverage Power Pages VS Code copilot to increase productivity

Newsletter

Power Pages Pro

Tino Rabe



https://www.linkedin.com/pulse/power-pages-newsletter-n65-tino-rabe-2k0pe/?trackingId=%2Byi6ETQTSNOKRt7xxCrzaQ%3D%3D

Portals Community Call

by Nickholas Heyduk

as Engineered Code

Hver måned

PORTALS COMMUNITY CALL

Every month Engineered Code holds a one hour community call, led by our resident Business Applications MVP Nicholas Hayduk.

What Happens on These Calls?

The format of these sessions is flexible, and might include things like the latest Portals news, training, and Q&A – the key is that is will be based on what the community wants.

This call is for any topics related to building portals on top of the Power Platform – and while we talk a lot about Power Pages (the offering from Microsoft), if you've got questions or topics about other products or techniques to build a portal, we are happy to talk about that too!

To view the recordings of previous calls, see the **playlist on YouTube**.

Next Community Call:
August 29, 2024 @ 3pm ET / 12pm PT

Topic:
Plugins With Power Pages

Register for the Portals Community Call

First Name:

Last Name:

Email Address:

What topics you'd like to see covered during the calls?

Submit

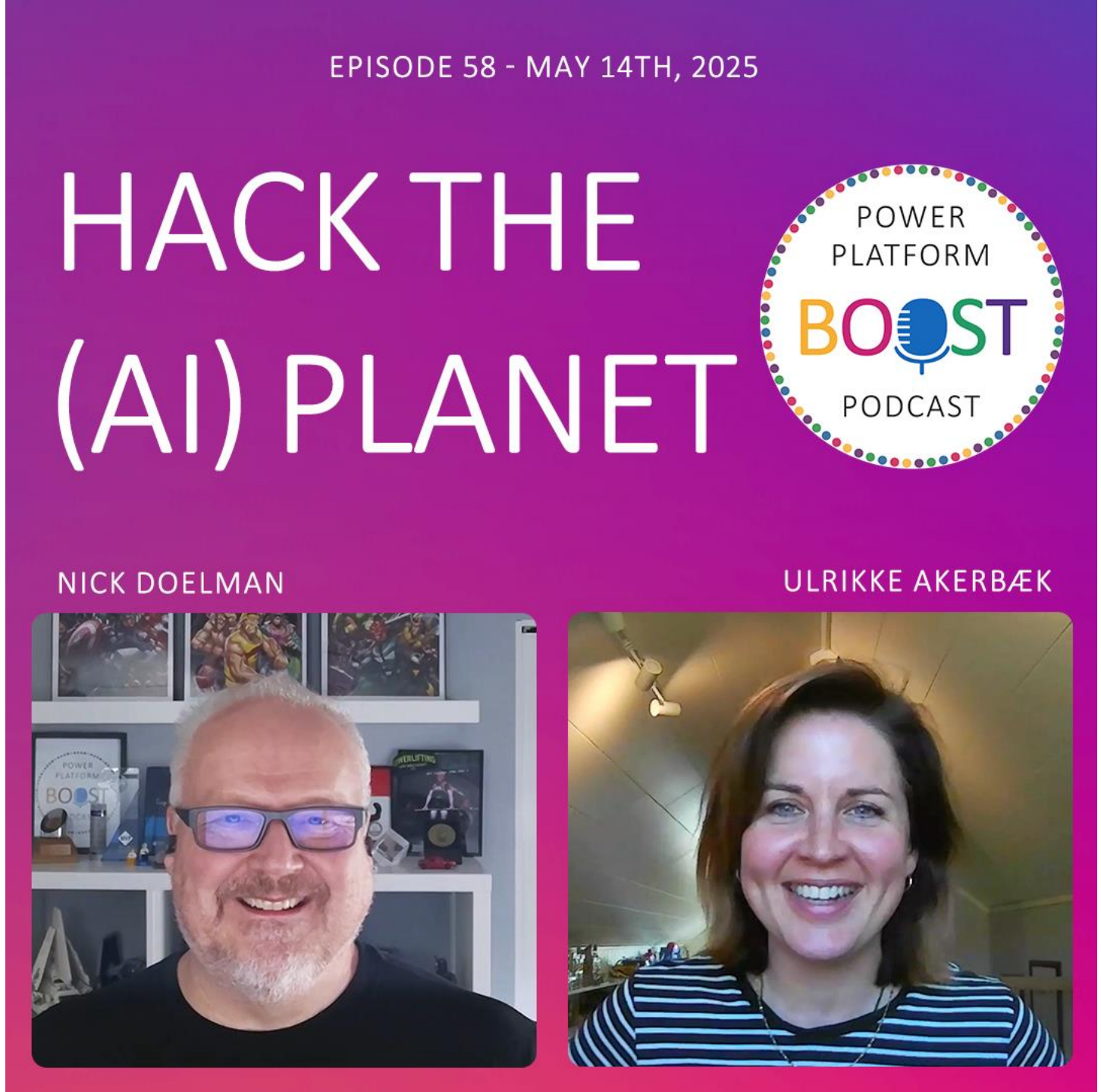
By submitting this form you agree to receive email communications from Engineered Code regarding the Portals Community Call.

https://www.engineeredcode.com/portals-community-call

Podcast

Power Platform BOOST Podcast

Nick Doelman
Ulrikke Akerbæk



http://powerplatformboost.com/

Del en ressurs med gruppa!

Del lenke i chatten til det stedet der du finner svar!

Photo by Marc-André Julien on Unsplash

Call for speakers!

Kjenner du noen som liker å
holde seg oppdatert og
fortelle andre om det?

Er det kanskje deg?

- Vi ser etter deg som ønsker å bidra!

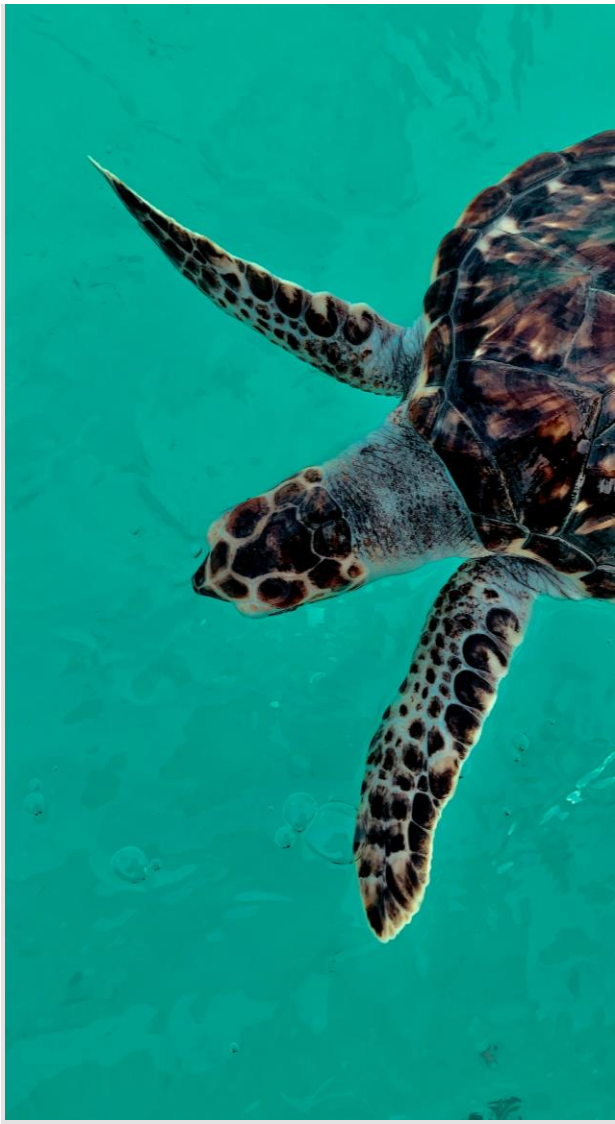


Photo by Naail Hussain on Unsplash

Neste Portallunsj

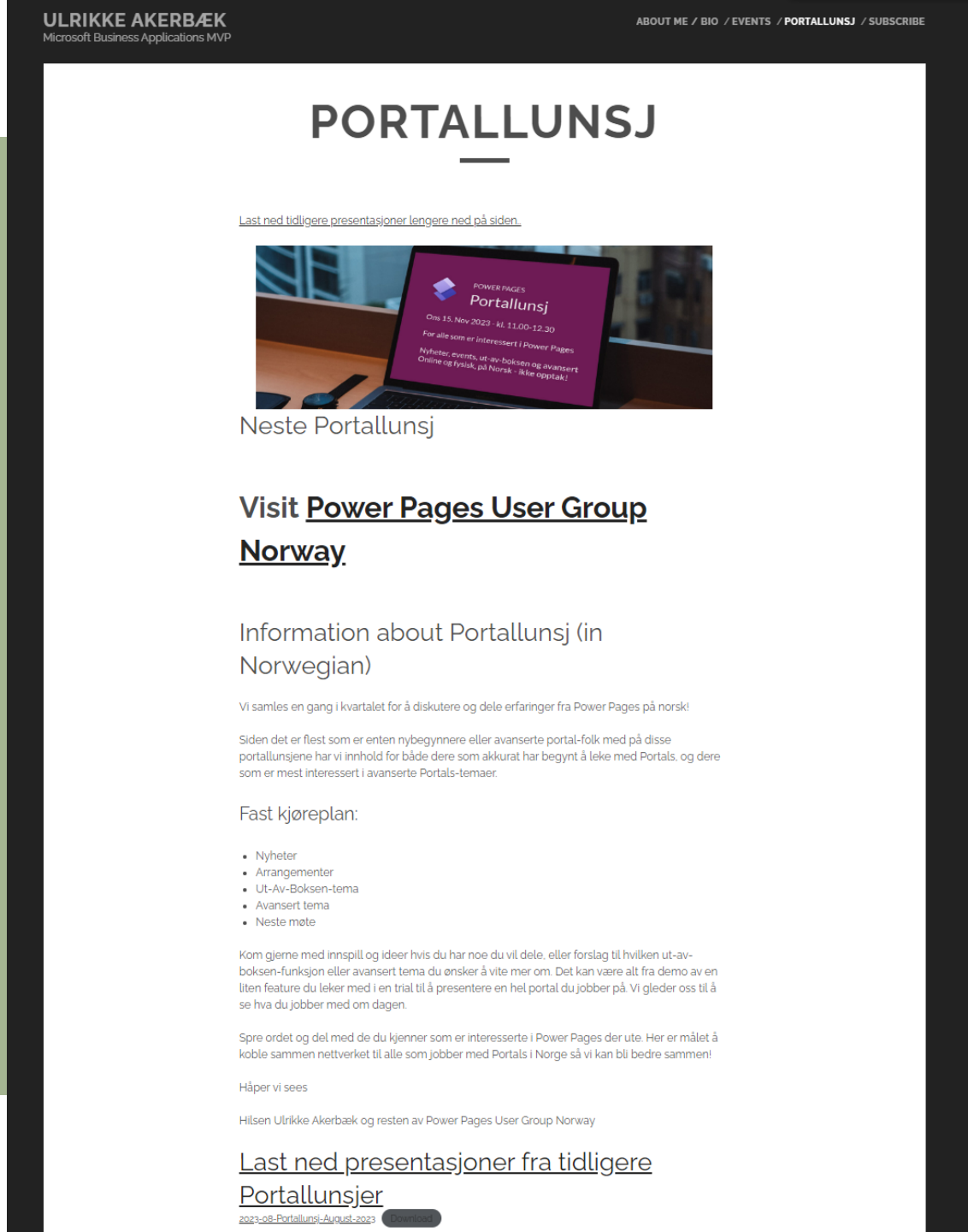
Onsdag 13. August

https://community.powerplatform.com/usergroups/eventdetails/?eventid=47832556-fa30-f011-8c4e-7c1e52585ca6

Last ned dagens presentasjon

Du kan laste ned dagens presentasjon som en PDF og få med alle klikkbare linker fra

https://ulrikke.akerbak.com/portallunsj



ULRIKKE AKERBÆK
Microsoft Business Applications MVP

ABOUT ME / BIO / EVENTS / PORTALLUNSJ / SUBSCRIBE

PORTALLUNSJ

Last ned tidligere presentasjoner lengere ned på siden.

Neste Portallunsj

Visit Power Pages User Group Norway

Information about Portallunsj (in Norwegian)

Vi samles en gang i kvartalet for å diskutere og dele erfaringer fra Power Pages på norsk!

Siden det er flest som er enten nybegynnere eller avanserte portal-folk med på disse portallunsjene har vi innhold for både dere som akkurat har begynt å leke med Portals, og dere som er mest interessert i avanserte Portals-temaer.

Fast kjøreplan:

- Nyheter
- Arrangementer
- Ut-Av-Boksen-tema
- Avansert tema
- Neste møte

Kom gjerne med innspill og ideer hvis du har noe du vil dele, eller forslag til hvilken ut-av-boksen-funksjon eller avansert tema du ønsker å vite mer om. Det kan være alt fra demo av en liten feature du leker med i en trial til å presentere en hel portal du jobber på. Vi gleder oss til å se hva du jobber med om dagen.

Spre ordet og del med de du kjenner som er interesserte i Power Pages der ute. Her er målet å koble sammen nettverket til alle som jobber med Portals i Norge så vi kan bli bedre sammen!

Håper vi sees

Hilsen Ulrikke Akerbæk og resten av Power Pages User Group Norway

Last ned presentasjoner fra tidligere Portallunsjer

2023-08-Portallunsj-August-2023 Download

Har du spørsmål om Power Pages?

Jeg henger her og dingler litt, så bare spør.. ☺

Send mail til ulrikke@akerbak.com

Photo by Naail Hussain on Unsplash