Crash Course in Power Apps portals

Nick Doelman

Former Microsoft Most Valuable Professional (2017-2021)
Microsoft Certified Trainer
TWITTER: @readyxrm
https://readyxrm.blog
https://www.linkedin.com/in/nickdoelman/
https://github.com/readyxrm
https://docs.microsoft.com/powerapps/maker/portals/
For fun: Competitive Powerlifter

Senior Content Developer @

Microsoft

Agenda

What is Power Apps portals?

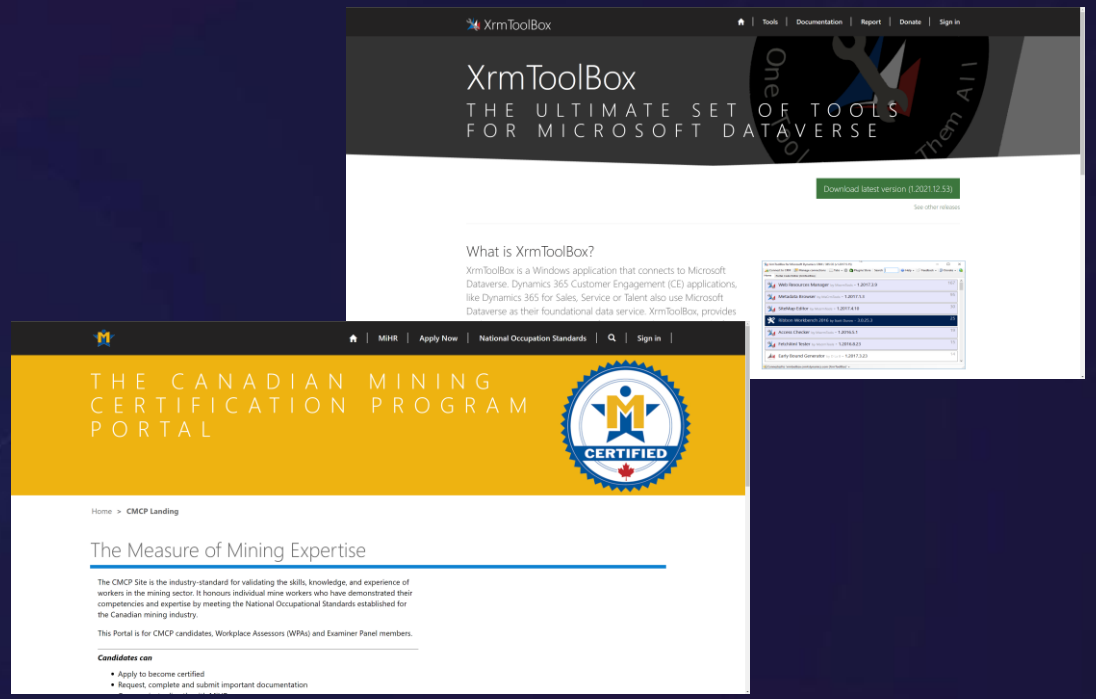
Build a simple portal app

- Provision a portal
- Tools
- Design, build, style a page
- Add a page to add data
- Security
- Allow users to view their data

Questions?

What are Power Apps portals?

- Platform to build websites, web applications and mobile apps
- Allows external stakeholders to interact (create, read, update, delete) data in Dataverse
- Can be component in an overall business application or standalone



Our scenario…

- We have been asked to build a website for the Royal Sasquatch Watching Society (not a real thing… or is it?)
- RSWS already has a Power App to track Sasquatch sightings, but would like to allow the public to log sightings

Bullockartwork.com

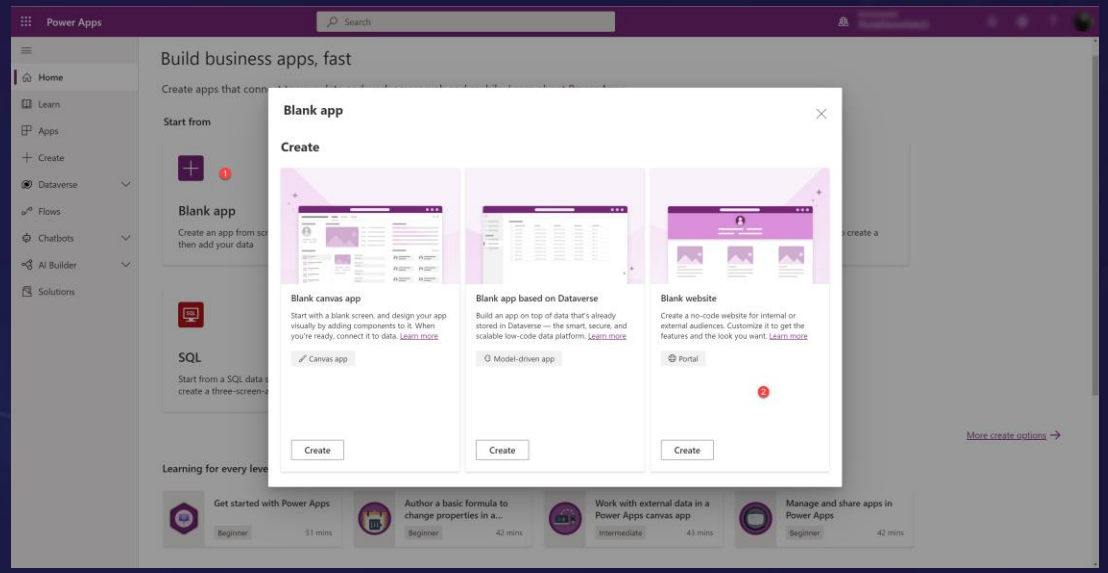
Provision a portal

Choose an environment

Dataverse required

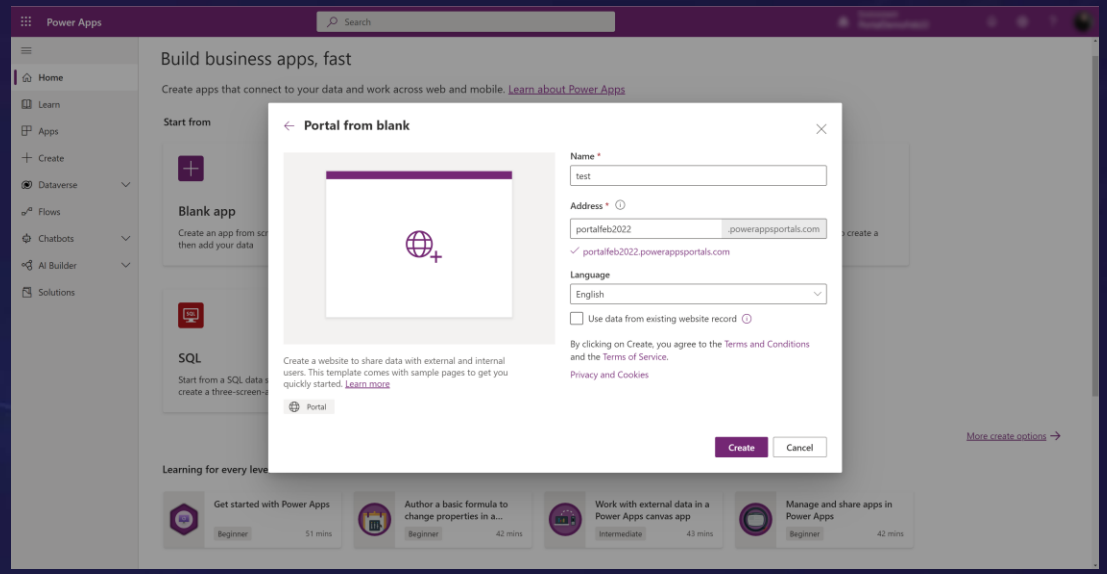
Start with a sandbox/trial

Avoid provisioning on production until you are ready!!!



Provision a portal

- Give it a name
- Unique URL (can create custom one later)
- Re-provision a previous portal from an expired trial

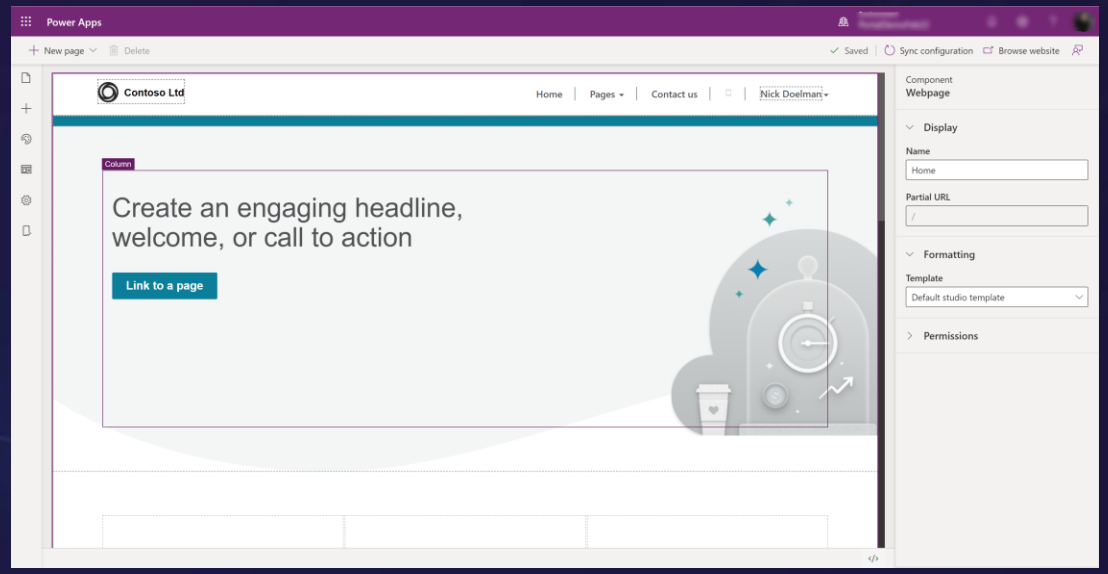


Tools: The portals Studio

Tool to build portal apps

Add pages, images, components

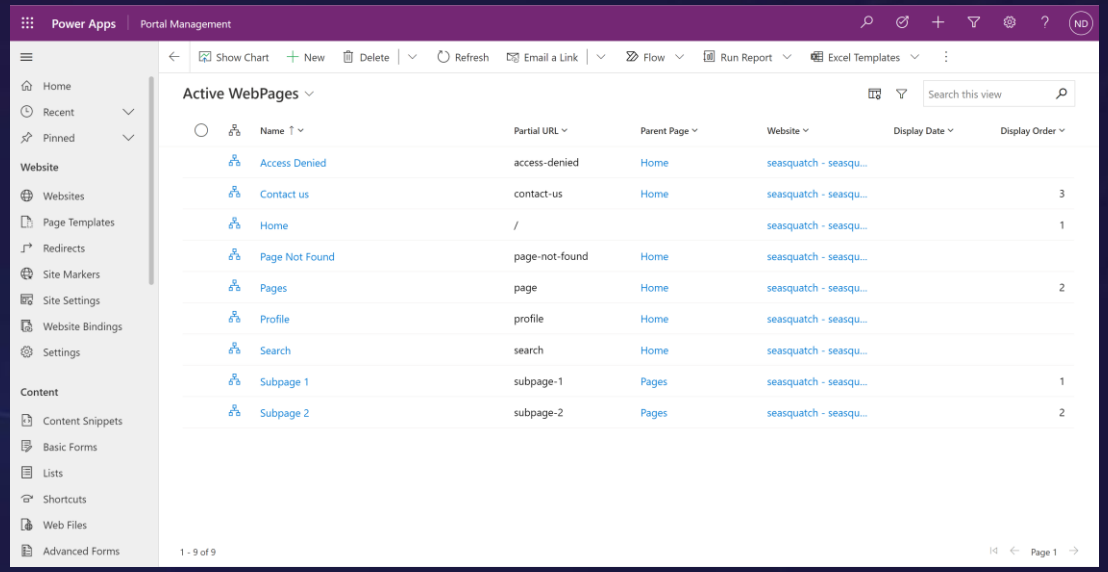
Update site map



Tools: Portals Management App

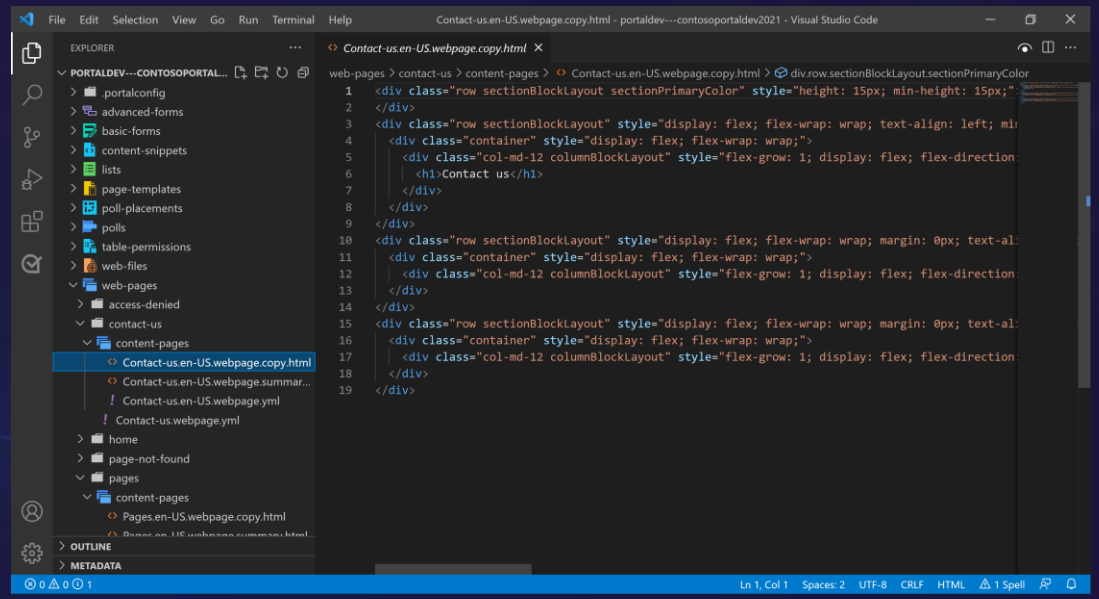
Model-driven Power App

Add and update portal metadata (web pages, forms, lists, etc)



Tools: VS Code + Power Platform CLI

- Pro-developer experience
- Update portal code (HTML, CSS, Liquid, JavaScript)
- Migrate from dev to test, to prod, etc.
- Not covered in today's session, but mentioning for awareness

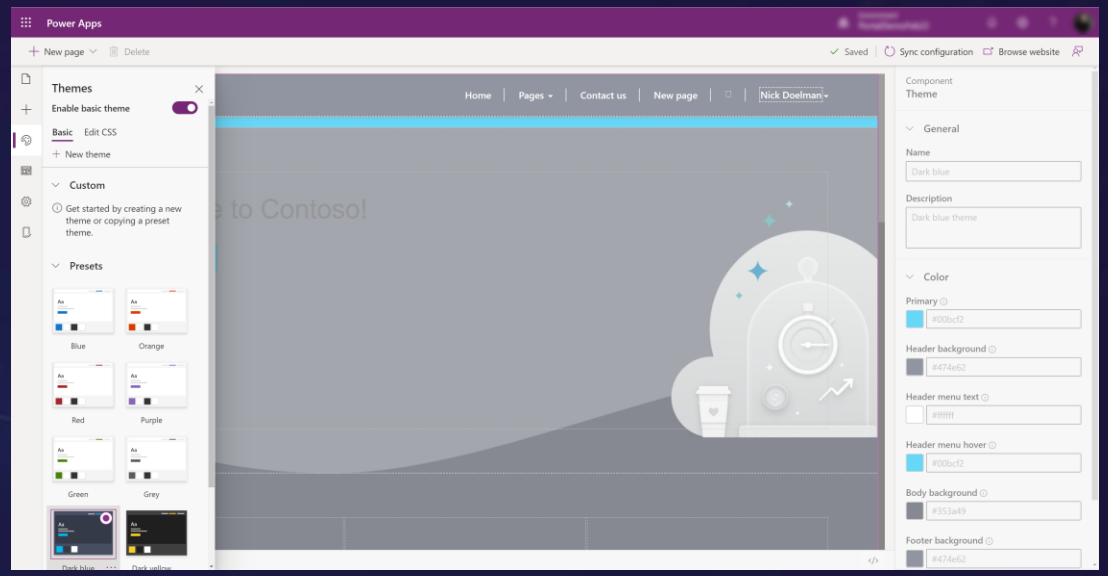


Branding and Styling

Some basic branding and styling (colors + themes)

Customize CSS

Improvements coming to this feature

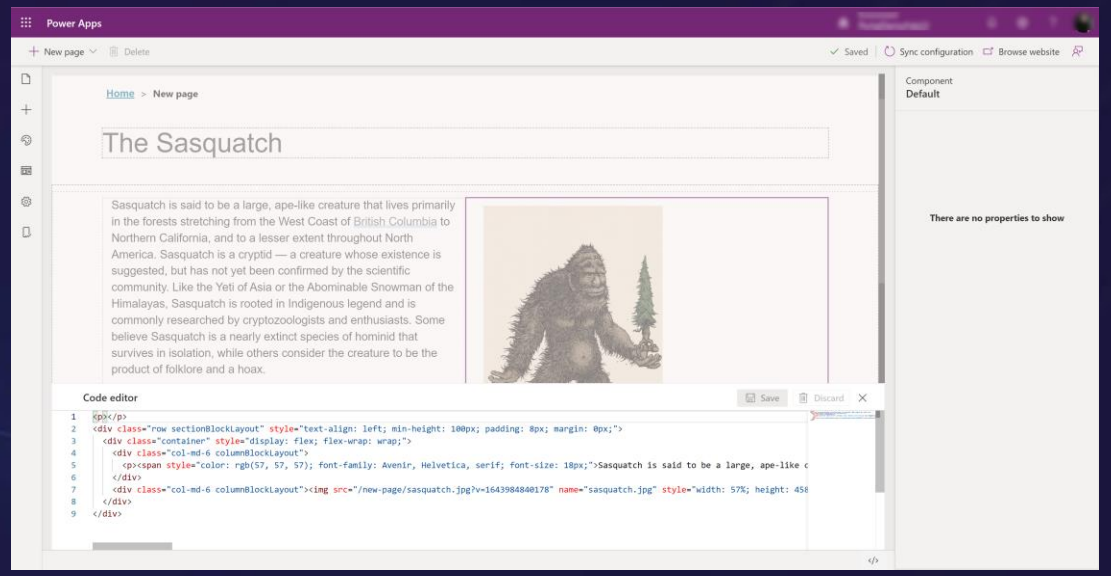


Create a page

Choose Template

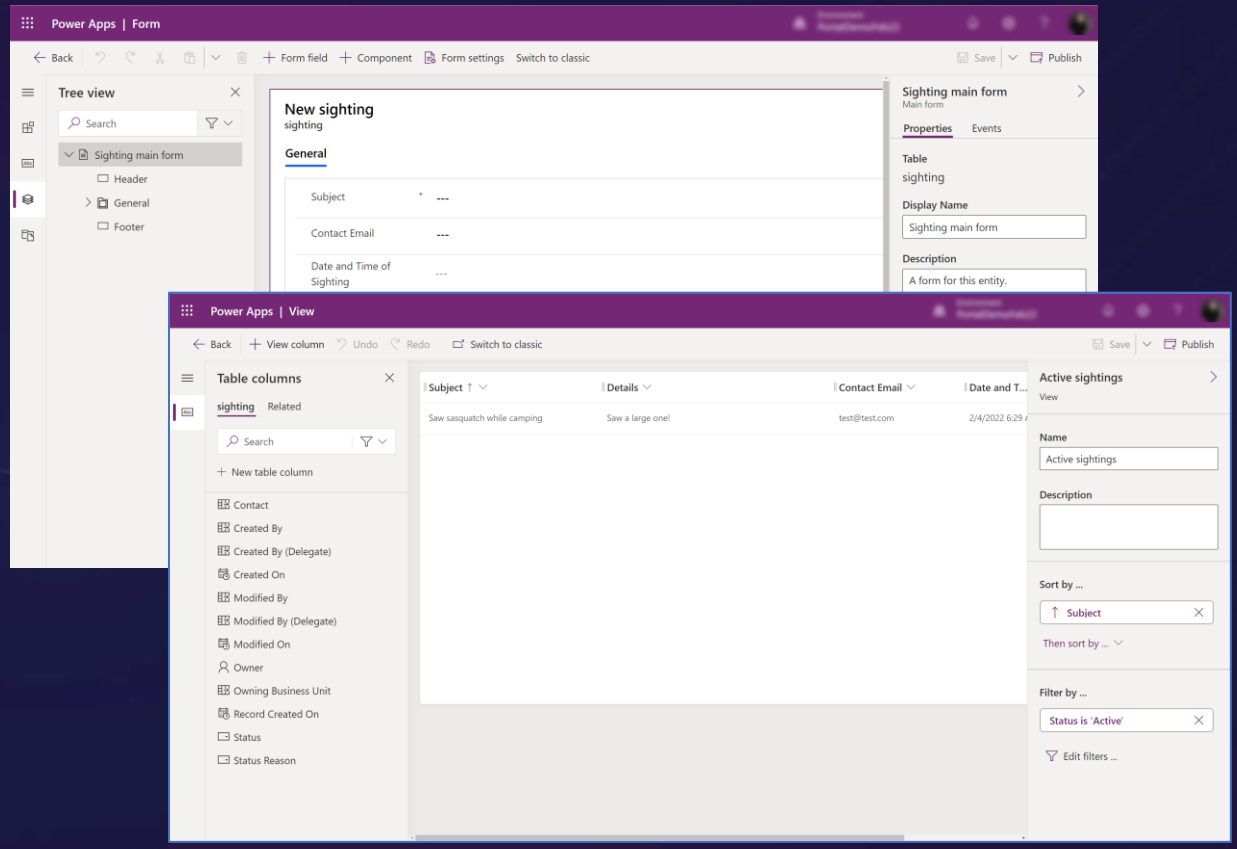
Add text, images

Edit the HTML to fine tune the page



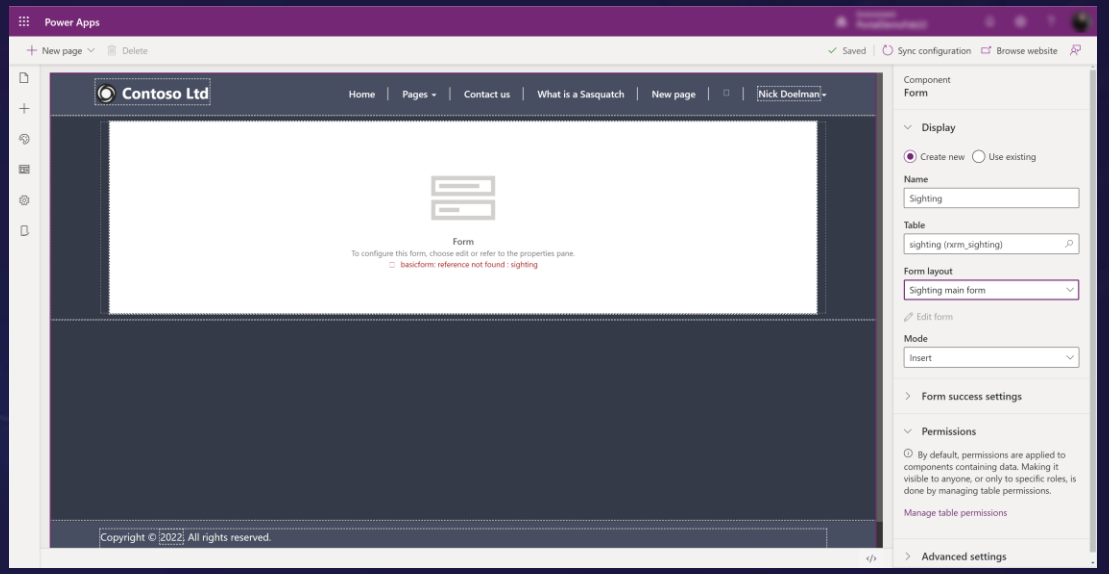
Working with Data

- Common requirement is to collect, view, and edit data
- Portals use Dataverse
- Portal components for viewing and working with data have foundation in model-driven app components (forms and views)



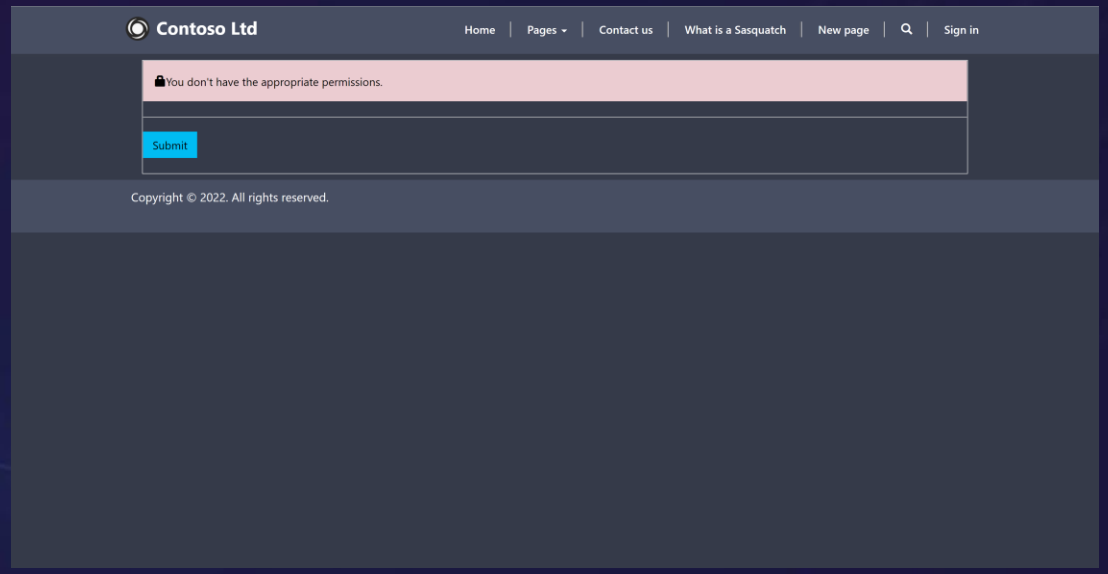
Working with Data

Add form and list components to a web page



Data Security

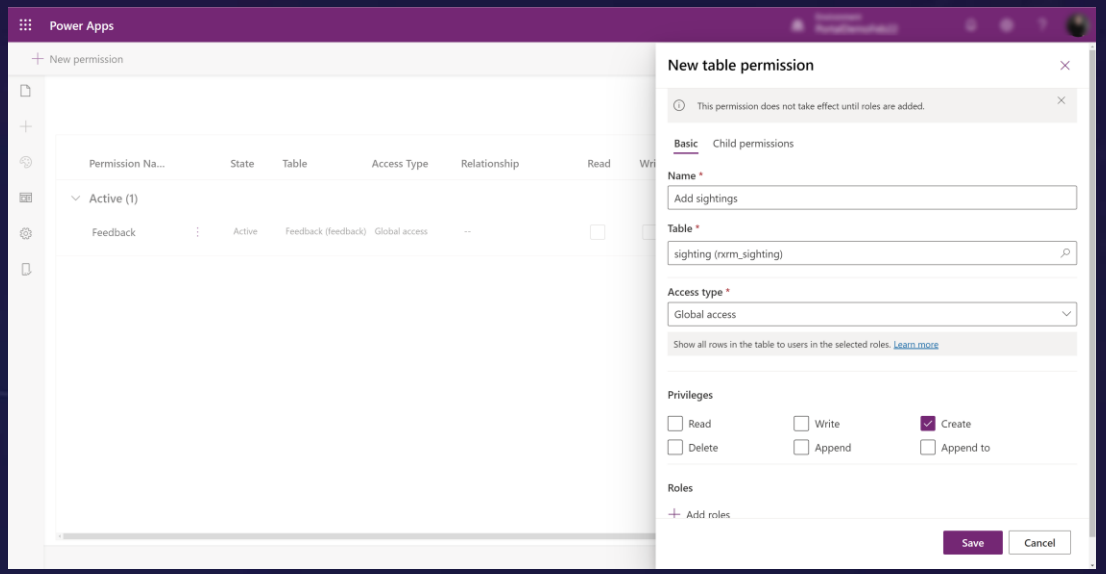
Portals have security enabled out of the box



Data Security

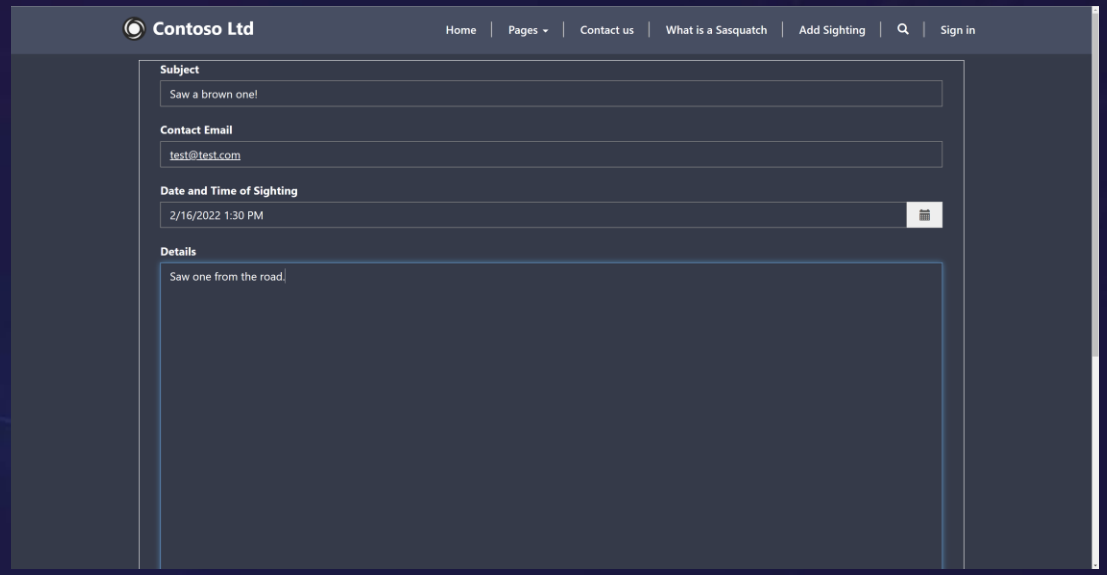
Add Table Permissions

Define privileges for Web Roles



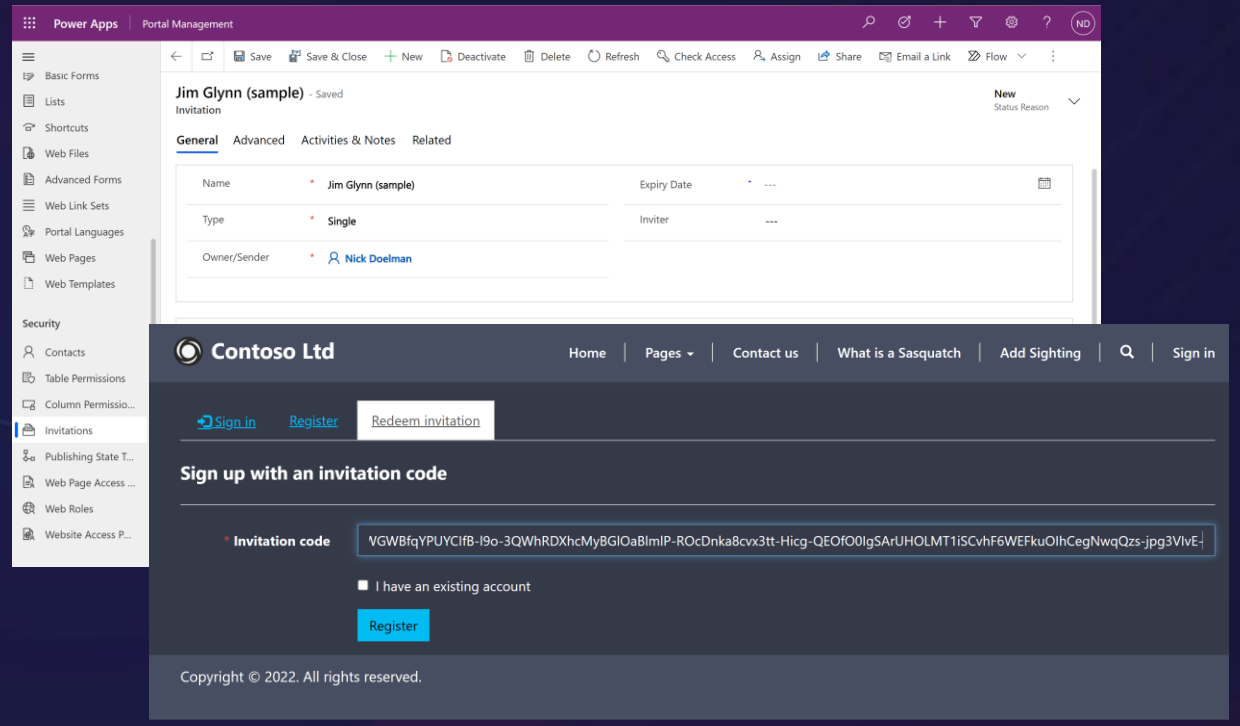
Adding Data

Add information using a Form



Authenticated Portal Users

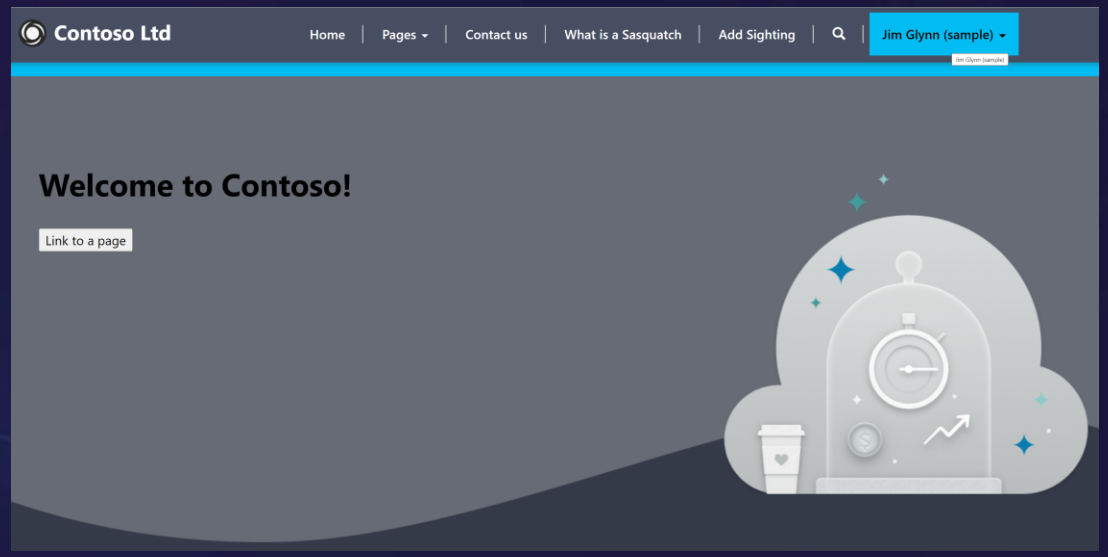
- Portal users = Dataverse Contacts
- Set up Authentication (e.g. Azure B2C, others)
- Invite existing contacts



Authenticated Portal Users

User signed into portal

Assign user to web roles



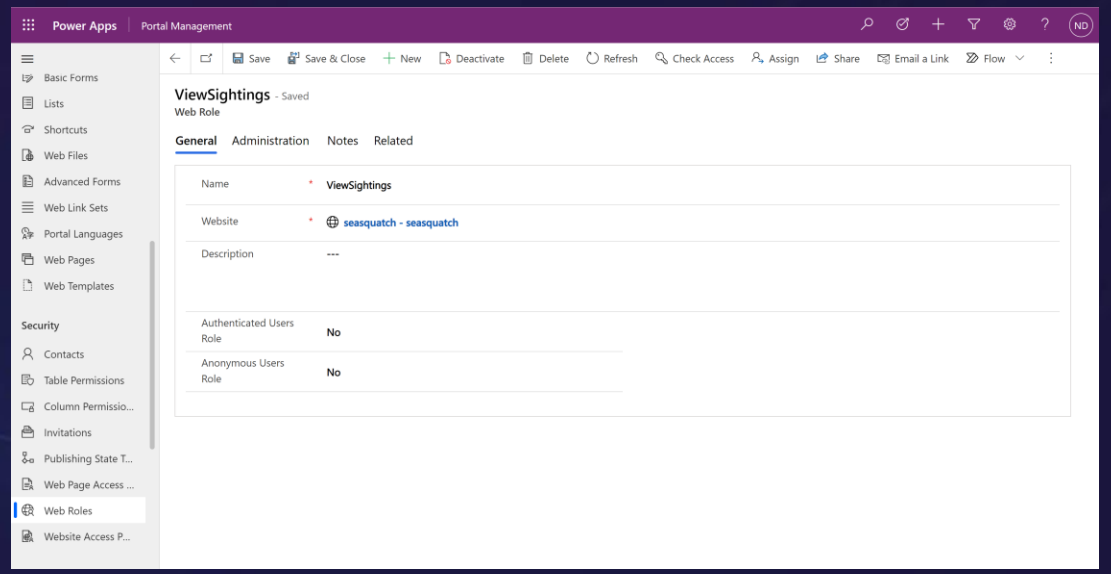
Custom Web Roles

Portal users can be assigned to web roles

Default web roles for all authenticate users and all anonymous users

Web roles tied to:

- Table Permissions
- Page Permissions
- Column Permissions

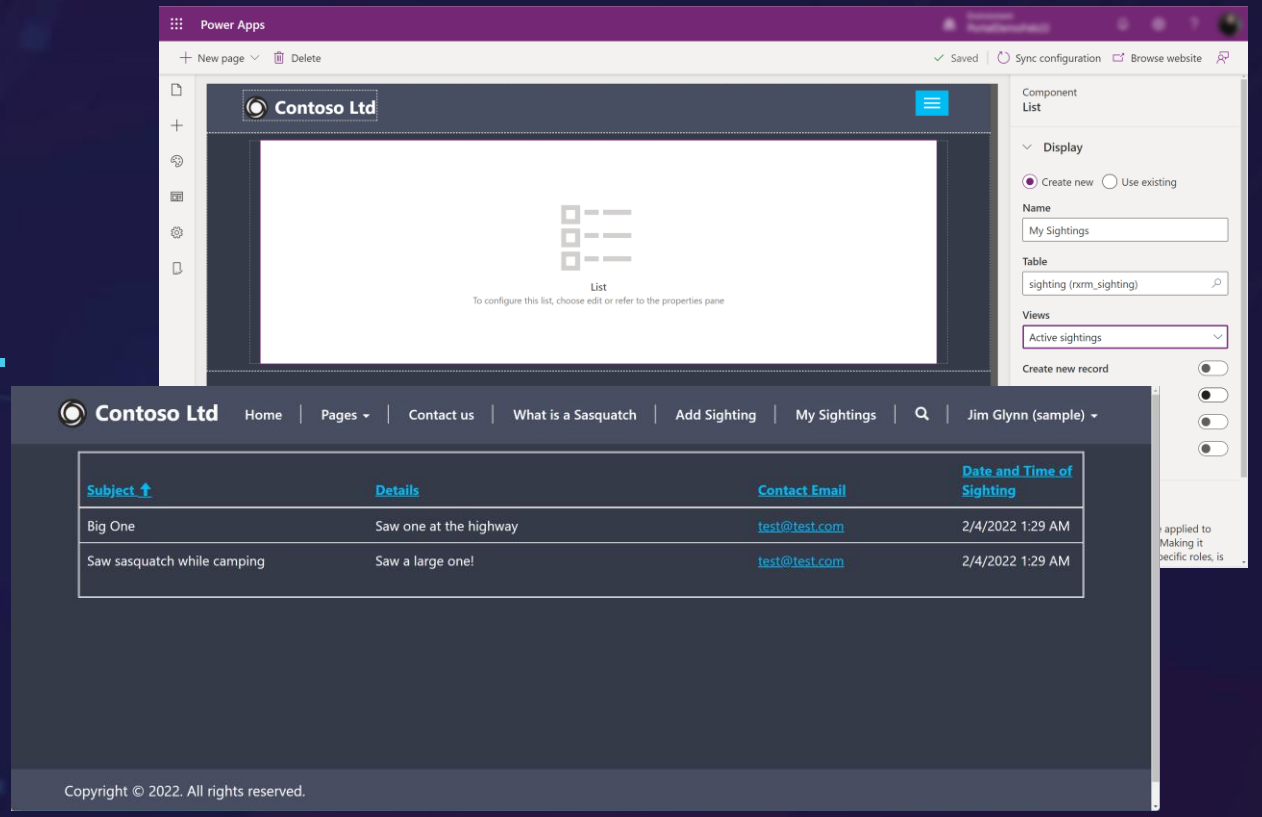


Viewing Data

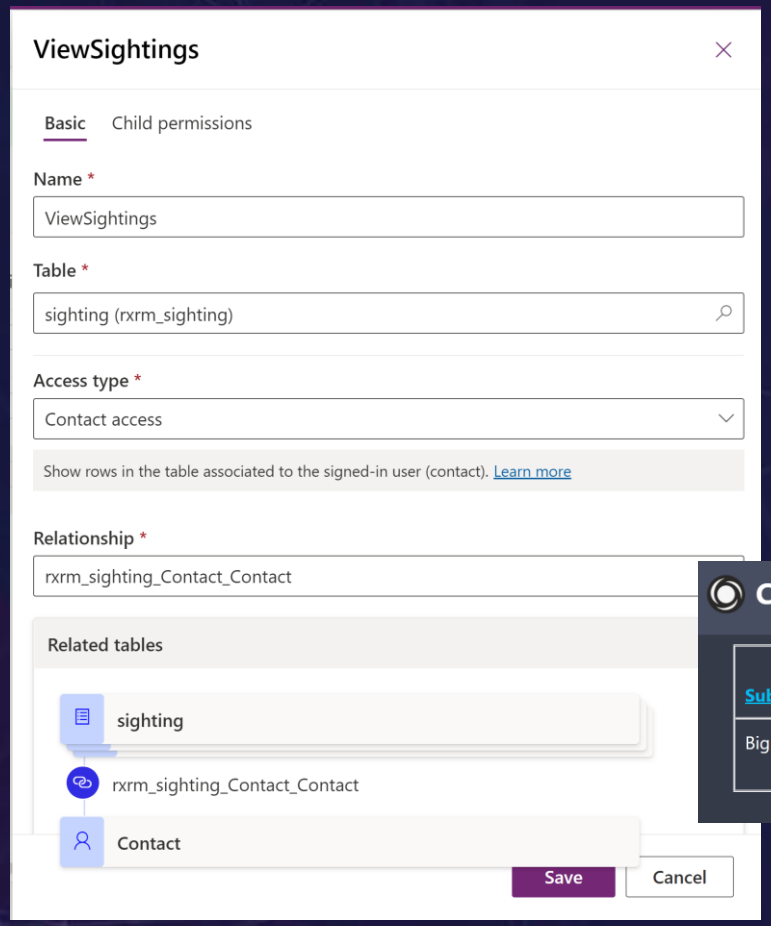
Use Dataverse views to add list components to pages

Apply security

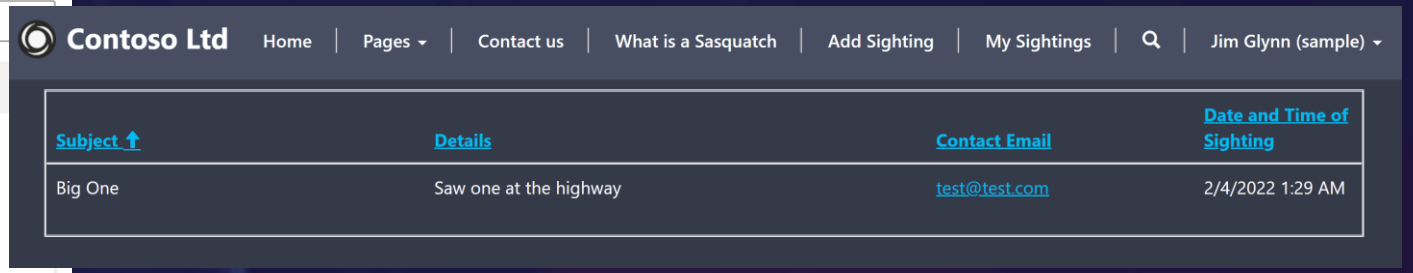
Drill down to view, edit or add data.



Use Table Permissions to Filter Data

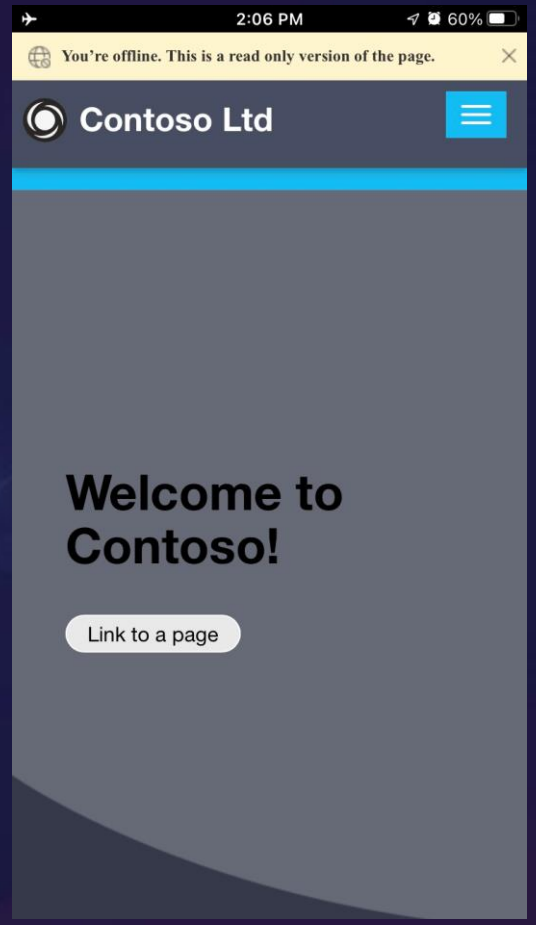


- Change access type
- Can be based on user (contact or account)
- Add child permissions for greater granularity



Create Mobile App

Create Progress Web Apps
Configure offline mode
Deploy apps using app stores



Other features of Power Apps portals

Custom web templates and layouts using Liquid markup
Portals web API (pro-dev customization)
Display SharePoint, Power BI, Power Virtual Agents
Calendar and Map views
Launch workflows
Extend Power Platform projects

QUESTIONS?