



BUILDING PORTALS WITH MODERN SHAREPOINT EXPERIENCES

Main Topics



- Common requirements for Portal solutions
- Technical solutions in “classic” vs. “modern” UI
- Customization options and boundaries



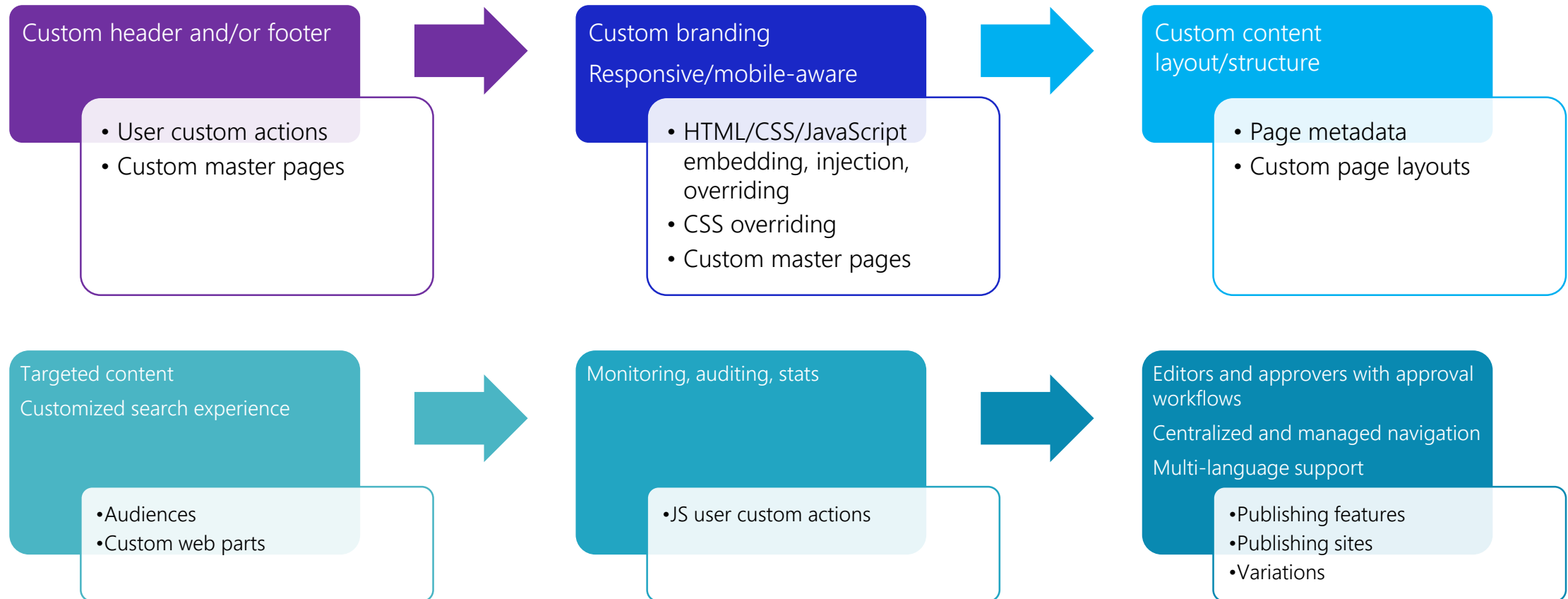
PORTAL SOLUTIONS WITH SHAREPOINT

Common business requirements



- Custom header and/or footer
- Custom branding
- Custom content layout/structure
- Targeted content
- Monitoring, auditing, stats
- Metadata for pages/news
- Editors and approvers with approval workflows
- Centralized and managed navigation
- Responsive design and mobile-aware
- Customizable search experience
- Multi-language support

“Classic” technical solutions



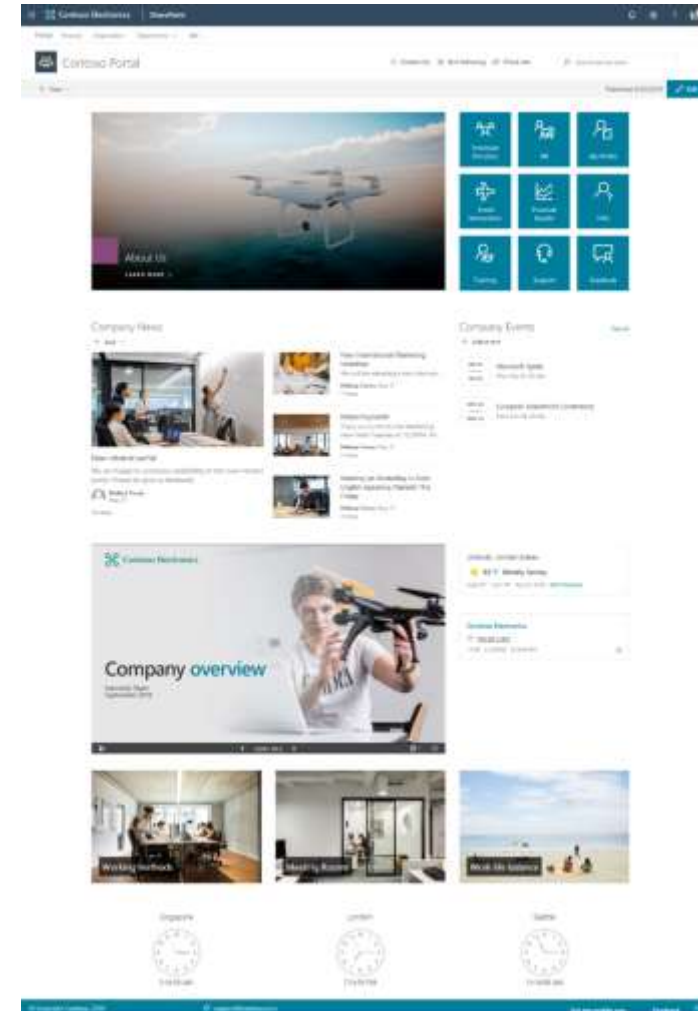


“MODERN” TECHNICAL SOLUTIONS

SharePoint Starter Kit



- Getting started with modern experiences
 - <https://aka.ms/sp-starter-kit>
- Ready to use open-source demo solution
- Open-source code and assets for reuse anyway you want
- Provisioning service for easy deployment across tenants
 - <https://provisioning.sharepointnp.com/>



What's included in the SP Starter Kit



- SPFx Web Parts
 - Banner
 - Followed Sites
 - Links
 - LOB Integration
 - People Directory
 - Personal Calendar
 - Personal Contacts
 - Personal Email
 - Personal Tasks
 - Recent Contacts
 - Recently Used Documents
 - Recently Visited Sites
 - Site Information
 - Stock Information
 - Tiles
 - Weather Information
 - World Time
- SPFx Extensions
 - Alert Notification
 - Collab Footer (Taxonomy based)
 - Discuss Now
 - Portal Footer
 - Redirect
 - Site Classification
 - Tab Page
- Client-side Services
 - User Profile
 - Taxonomy
- REST APIs
 - LOB Azure Function
 - LOB ASP.NET REST API
- Automated Provisioning with PnP



A LAP AROUND THE SHAREPOINT STARTER KIT

Choose the right site template



- Communication Site
 - News, articles, company intranet
- “Modern” Team Site
 - Collaboration and content sharing
 - Shared Calendar
 - Shared Mailbox
 - Planner
 - Optionally Microsoft Teams (kindly suggested ...)
- “Modern” Team Site No-Group
 - Content sharing with no full collaboration stack
 - You can always “groupify” (i.e. add a Group) it, later on ...
 - And eventually “teamify” (i.e. add a Team) it, too ...
- You can always create a hierarchy of sites within a unique Hub Site
 - Shared logo, top navigation, Site Design, and theme across the sites in the Hub Site

How to build the Information Architecture



- You can use Site Designs + Site Scripts
 - For provisioning of basic artifacts
 - Fields, Content Types, Lists, etc.
- You can use PnP Remote Provisioning
 - For full provisioning
- You can use a Site Design + Site Scripts + Microsoft Flow
 - To invoke a back-end Azure Function to run PnP Provisioning Engine
 - To mix both of the previous scenarios

“Modern” Branding



- No more master pages
- No more CSS overriding
- No more JS embedding
- SPO custom themes
- Site custom logo



CREATING SPO THEMES AND SETTING CUSTOM LOGOS

For your own reference



- SharePoint Theme Generator Tool
 - <https://fabricweb.z5.web.core.windows.net/pr-deploy-site/refs/pull/9015/merge/theming-designer/index.html>
 - <https://developer.microsoft.com/en-us/fabric#/styles/themegenerator>
- SharePoint Site Theming
 - <https://docs.microsoft.com/en-us/sharepoint/dev/declarative-customization/site-theming/sharepoint-site-theming-overview>
 - <https://laurakokkarinen.com/how-to-create-a-multicolored-theme-for-a-modern-sharepoint-online-site/>
- PnP PowerShell command let to add a new SPO Theme
 - <https://docs.microsoft.com/en-us/powershell/module/sharepoint-pnp/add-pnptenanttheme>

Headers/footers and managed navigation



- You can leverage the Hub Sites functionality of SPO
 - To have a unique menu across multiple sites
 - You can build it using:
 - The web UI
 - PnP PowerShell
 - PnP Sites Core
 - PnP Provisioning Engine
- You can build “SharePoint Framework Application Customizers”
 - Reading the menu items from the taxonomy service
 - Or from a list shared across the Hub Site
- You can leverage the new “Mega-menu”
- We now have the “modern” footer, too
 - For Communication Sites
 - Links/Labels (up to 8), logo, and/or name
 - Can be configured using
 - The web UI
 - PnP PowerShell
 - PnP Sites Core
 - PnP Provisioning Engine



BUILDING CUSTOM HEADERS AND FOOTERS WITH SPFX APPLICATION CUSTOMIZERS

Building Application Customizers (reference only)



- Scaffold the SPFx extension
- Build custom UI elements when `onInit()` fires
 - Or when placeholders change
- Use `this.context.placeholderProvider` to read available placeholders
- Available placeholders (so far):
 - Top
 - Bottom
- Debug integrated with Visual Studio Code and SPFx generator scaffolding
 - Config `serve.json` + `gulp serve --config=configName`

FAQ on Application Customizers?



- Can I change their rendering based on page mode (Display/Edit)?
- Can I share them across multiple sites?
- Do they work in “classic” mode?

Monitoring, auditing, stats



- You can create an Application Customizer
- Make it invisible to end users
 - Simply no UI elements
 - Just code
- Use Application Insights to keep track of usage
 - Or Google Analytics
 - Or whatever else you like ...

Custom page content/layout



- Build custom client-side web parts with SPFx
- Place them in the pages with custom layouts
 - Customizable sections and columns
- Save “modern” pages as Page Templates
- Custom metadata for pages/news



BUILDING CUSTOM CLIENT-SIDE WEB PARTS

SINGLE WEB PART APP PAGE

PAGE TEMPLATES

Search Experience



- The new “modern” UI still lacks a native search UI
- However in PnP there are SPFx web parts to provide almost the same experience
 - <https://github.com/SharePoint/sp-dev-solutions/tree/master/solutions/ModernSearch>



“MODERN” CUSTOMIZED SEARCH EXPERIENCE WITH SPFX CLIENT-SIDE WEB PARTS

Multi-language support



- Upcoming out of the box functionality ...
 - Did you see the SPC19 Keynote?
- In the meantime, there is a solution from the community
 - <https://github.com/SharePoint/sp-dev-solutions/tree/master/solutions/MultilingualPages>
 - Based on SPFx Application Customizers

What is still missing?



- Audience targeting for News, Pages, and highlighted content
- Content approval workflows and scheduling
- They will come in the «near» future ...

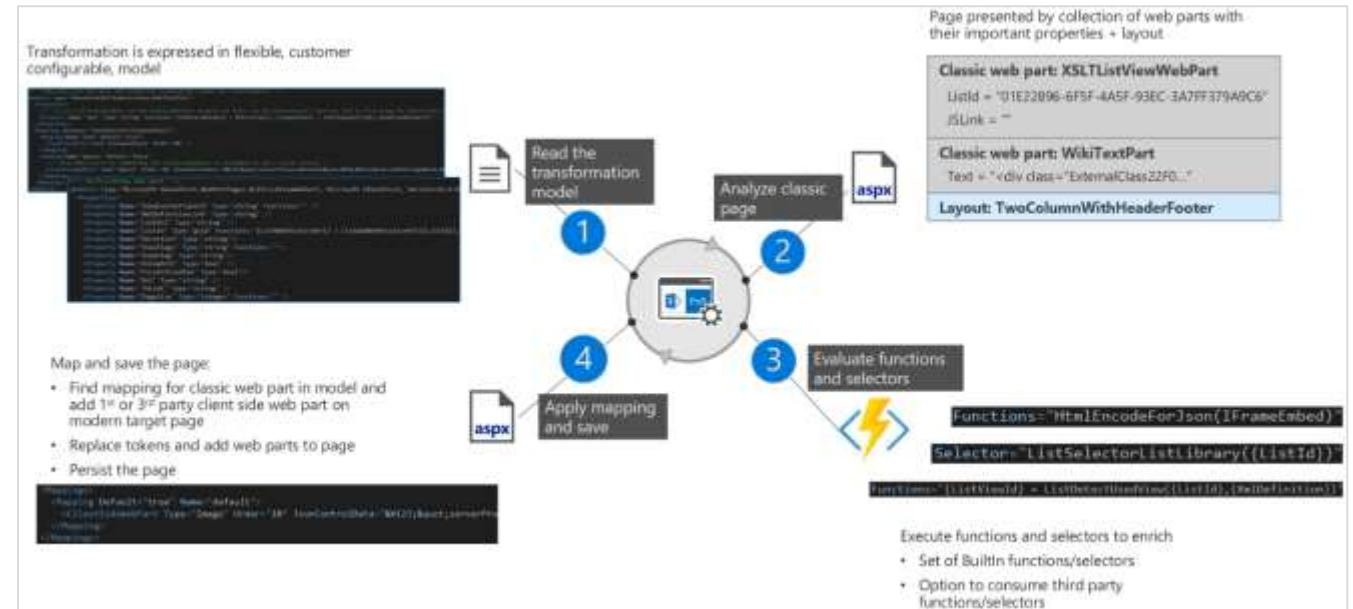
How can I “modernize” my existing solutions?



- Modernization Framework for SharePoint Online

- aka.ms/sppnp-modernize

- Guidance and tooling for easy transformation from classic experiences to the modern SharePoint Online user experience
- Open Source initiative to help customers and partners in the modernization journey





thank you



questions?



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[HTTP://AKA.MS/SPPNP](http://aka.ms/sppnp)



1. INSTALL THE
COLLABSUMMIT APP



2. RATE THE SESSIONS
THAT YOU HAVE
ATTENDED

3. WIN ONE OF THE 4
C64-MINIS



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