

BadgerSoft ABC Topic List — Certification Testing Guide

Solution Overview

Property	Value
Solution Name	BadgerSoft ABC Topic List
Solution ID	0abdd76e-64e1-4ad9-af6a-266315adc96c
Feature ID	c3e2716e-3ed6-42e6-8679-0bbed4284ce5
WebPart ID	732df3a4-d8a6-4557-8064-0e721432cd32
Version	1.0.0.0
Package	badgersoft-abc-topic-list.sppkg
Framework	SPFx 1.22.x
MPN ID	6576141

Permissions & Data Access

- **No Microsoft Graph API permissions** requested
- **No external API calls** in read/view mode
- Data access is limited to **SharePoint list items** on the current site via PnPjs
- The webpart does **not** require custom script permissions (`requiresCustomScript: false`)
- License validation (edit mode only) calls an Azure Function proxy — this is non-blocking and fail-open

Supported Hosts

- SharePoint Web Part (modern pages)
- SharePoint Full Page App
- Microsoft Teams Tab
- Microsoft Teams Personal App

Prerequisites

To test this webpart you need:

1. A **SharePoint Online** site (any template)

2. A **SharePoint list** with at least:

- The default **Title** column (used for A–Z grouping)
- Optionally: any other columns (text, person, choice, date, URL, image, ...) to configure in the detail view
- Optionally: a **Hyperlink (URL)** column to test the *Items with a direct link* feature

Sample Test List Setup

Create a list called "**Topics**" with these columns:

Column	Type	Purpose
Title	Single line of text	Topic name (default column) — used for A–Z grouping
Description	Multiple lines of text (Rich text)	Topic detail body
Owner	Person	Tests person-field display variants
Category	Choice	Tests pill / tag display
Updated	Date and Time	Tests date display variants
Link	Hyperlink (URL)	Tests <i>Items with a direct link</i>
Photo	Image	Tests image display variants

Add 15–20 sample items spread across the alphabet so multiple letter groups are populated. Include at least one item whose Title starts with a number or symbol (to verify the "#" group), and give some items a value in the **Link** column and some without (to verify mixed direct-link / modal behavior).

Sample Test Data

Title	Category	Owner	Link
Annual Leave	HR	(any user)	(empty)
Benefits Overview	HR	(any user)	https://intranet.example.com/benefits
Code of Conduct	Policy	(any user)	(empty)
Data Protection	Policy	(any user)	(empty)
Expenses	Finance	(any user)	https://intranet.example.com/expenses

Title	Category	Owner	Link
Fire Safety	Facilities	(any user)	(empty)
GDPR	Policy	(any user)	(empty)
Health & Safety	Facilities	(any user)	(empty)
IT Support	IT	(any user)	https://support.example.com
Onboarding	HR	(any user)	(empty)
Parking	Facilities	(any user)	(empty)
Remote Work	HR	(any user)	(empty)
Security Incident	IT	(any user)	https://soc.example.com
Travel Policy	Finance	(any user)	(empty)
VPN Access	IT	(any user)	(empty)
360 Feedback	HR	(any user)	(empty)

Installation

1. Upload badgersoft-abc-topic-list.sppkg to the **App Catalog**
2. Deploy the solution (no API permission approval needed)
3. Navigate to a modern SharePoint page
4. Edit the page and add the **ABC Topic List** webpart (search for "ABC")

Test Scenarios

Test 1: Initial Configuration

Steps:

1. Add the ABC Topic List webpart to a page
2. The webpart shows a configuration placeholder with a **Configure** button
3. Click **Configure** (or the pencil icon) to open the property pane
4. In the **Select a list** picker, choose your **Topics** list

Expected result:

- Only standard (non-hidden) lists in the current site appear in the picker

- After selecting the list, items appear immediately, grouped A-Z by the first letter of the Title
 - Items whose Title does not start with a letter (A-Z) appear under the "#" group
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Test 2: Grouped Display Style (default)

Steps:

1. Ensure **Display style** is set to **Grouped**
2. View the webpart on the page

Expected result:

- Every letter that has at least one item is rendered as its own section with the letter as a header
 - Topics are listed alphabetically within each section
 - The **Number of columns** slider and **Flowing columns** toggle are visible in the property pane
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Test 3: Tabbed Display Style

Steps:

1. Open the property pane
2. Set **Display style** to **Tabbed**

Expected result:

- A horizontal tab bar appears with one tab per populated letter
 - Clicking a tab shows only that letter's topics
 - The column-layout controls are **hidden** (they only apply to Grouped)
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Test 4: Tabbed (Circular) Display Style

Steps:

1. Set **Display style** to **Tabbed (circular)**

Expected result:

- Same behaviour as Tabbed, but the tabs render as rounded "pill" buttons
 - All topics for the selected letter are shown below the tab bar
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Test 5: Column Layout (Grouped only)

Steps:

1. Switch back to **Grouped**
2. Move the **Number of columns** slider through 1, 2, 3, 4
3. Toggle **Flowing columns** between *Equal column heights* and *Heights flow through*

Expected result:

- The slider changes the column count immediately
 - *Equal column heights* — each letter section keeps its own column slot, sections do not flow
 - *Heights flow through* — letter sections wrap naturally across columns (CSS column flow), balancing column heights for a more compact look
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Test 6: Detail View (Modal) — Default

Steps:

1. Click any topic in the list

Expected result:

- A modal opens showing the item's **Title** and the built-in **Description**
 - Closing the modal returns to the A-Z view with no state loss
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Test 7: Detail View — Adding & Configuring Fields

Steps:

1. In the property pane, under **Detail view**, click **Manage fields**
2. Click **Add** and select the **Owner** column; set *Display as* to **Photo + name + email**
3. Click **Add** and select the **Category** column; set *Display as* to **Pill**
4. Click **Add** and select the **Updated** column; set *Display as* to **Date (long)**
5. Click **Add** and select the **Photo** column; set *Display as* to **Image (medium)**
6. For the **Category** row, set a custom **Display name** "Topic category" and toggle **Show display name** off, then on
7. Drag rows to reorder them
8. Save / close the manager and click a topic

Expected result:

- The modal shows the configured fields in the chosen order, with the chosen rendering
 - Person field shows the user photo, name, and email
 - Choice field renders as a coloured pill
 - Date field renders in long format
 - Image field renders at medium size
 - *Show display name* off hides the label above the value; on shows the custom label
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Test 8: Display Variants per Field Type

Steps: For each available field type in your test list, cycle through every **Display as** option and reopen the modal:

Field type	Variants to verify
Single line of text	Heading, Normal text
Multiple lines of text	Rich text, Plain text
Person / Person (multi)	Photo+name+email, Photo+name, Photo+name+title, Name, Email, Name+email, Name+title
Choice / MultiChoice	Plain text, Pill, Tag
Date and Time	Date short, Date long, Date+time short, Date+time long
Currency	Currency (locale symbol), Number
Hyperlink (URL)	Link, Link with icon
Yes/No	Yes/No, Checkbox icon
Image / Thumbnail	Small, Medium, Large
Lookup / Lookup multi	Plain text, Pill, Tag
Location	Address, Address with map link
Rating	Stars, Number
Managed Metadata	Plain text, Pill, Tag

Expected result:

- Each variant renders correctly without errors
- Currency uses the locale-aware symbol configured on the SharePoint column itself (no extra config needed)

Test 9: Separators

Steps:

1. In **Manage fields**, add a — **Separator** — row between two fields
2. Set its display option to **Default**, then to **Brand color**
3. Reopen the modal

Expected result:

- A horizontal line splits the two fields visually

- *Default* renders neutral; *Brand color* uses the SharePoint theme's brand color
 - Separators are always rendered, even when **Hide empty fields** is enabled
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Test 10: Hide Empty Fields

Steps:

1. Ensure at least one configured field has no value for some items
2. Toggle **Hide empty fields** in the property pane
3. Open the modal for an item with empty values

Expected result:

- With the toggle **on**, empty fields are omitted from the modal
 - With the toggle **off**, empty fields are shown with their label and an empty value
 - Separator rows remain visible regardless of the toggle
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Test 11: Profile Click Behavior

(Requires at least one Person field configured in the detail view.)

Steps:

1. Open the **Profile click behavior** dropdown that appears in the **Detail view** group
2. Cycle through: **Default (Microsoft 365 profile)**, **No link**, **Custom link**
3. For **Custom link**, enter `https://intranet.example.com/people/{email}` in the **Custom link URL** field

Expected result:

- *Default* — names link to the SharePoint person card (`/_layouts/15/me.aspx`)
 - *No link* — names render as plain text (no hyperlink)
 - *Custom link* — names link to the configured URL with `{email}` and `{loginName}` URL-encoded automatically (e.g. `user@contoso.com` → `user%40contoso.com`)
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Test 12: Items with a Direct Link

Steps:

1. Open the **Items with a direct link** group in the property pane
2. Toggle **Enabled** on
3. Set **URL field** to the **Link** column
4. Click an item that **has** a Link value
5. Click an item that does **not** have a Link value
6. Toggle **Hide link icon** on, then off

Expected result:

- Items with a URL value open that URL in a new browser tab (no modal)
 - Items without a URL value still open the normal detail modal
 - A small "open in new tab" icon appears next to linked items; toggling **Hide link icon** removes / restores the icon
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Test 13: Web Part Title (inline editing)**Steps:**

1. In edit mode, click the title text at the top of the web part
2. Type a new title
3. Clear the title completely and switch out of edit mode

Expected result:

- The title is editable inline, no property pane needed
 - A non-empty title is rendered above the A-Z view in display mode
 - An empty title hides the title row entirely
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Test 14: Theme Support**Steps:**

1. Apply a different SharePoint site theme (and a dark theme if available)
2. View the webpart on the page

Expected result:

- Web part colours adapt to the active theme
 - Headings, separators (Brand color), pills, tags, and tab indicators use the theme's primary colour
 - Text remains readable with proper contrast in light and dark themes
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Test 15: Microsoft Teams**Steps:**

1. Add the SharePoint page (or the web part directly) as a tab in a Teams channel
2. Open the tab and interact with the topics
3. Click the tab name → **Settings** to access configuration in Teams

Expected result:

- Web part renders correctly within Teams (light and dark Teams theme)
 - All features (display styles, modal, direct link, search-by-letter) behave identically to SharePoint
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Test 16: Localization

Steps:

1. Change the user's SharePoint language to one of: Dutch, French, German, Spanish, English
2. Reload the page

Expected result:

- The web part UI (property pane labels, modal labels, placeholders, license banner) renders in the matching language
 - Language falls back to English when the user's language is none of the five supported locales
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Test 17: Empty & Unconfigured States

Steps:

1. Point the webpart to an empty SharePoint list
2. Remove the list selection (clear configuration)

Expected result:

- Empty list — a friendly empty-state message is shown
 - No configuration — the configuration placeholder with the **Configure** button is shown
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Test 18: Licensing & Soft Lock Banner

Steps:

1. Add the webpart to a page (no license key configured)
2. Open the property pane (click Edit on the webpart)
3. Observe the license banner that appears

Expected result:

- A banner displays explaining that no license was found, with a **Learn more** link to the BadgerSoft product page and a **Got it** dismiss button
- While the banner is visible, **all configuration fields are hidden** — only the banner and the **About** page are accessible
- Clicking **Got it** dismisses the banner and reveals the full property pane configuration
- The dismiss is **per-session only** — reopening the property pane after a page refresh shows the banner again

Important design notes:

- The license check runs **only when the property pane opens** (edit mode), never on page load
- End-users viewing the page are **never affected** by license status

- If the license check fails (network error, proxy down), the webpart defaults to **licensed** (fail-open design)
 - The **About** page always shows the current license status (green checkmark if licensed, red cross if not)
 - The banner is fully localized in all 5 supported languages
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Security Notes

- All HTML in rich-text fields is sanitized with **DOMPurify** before rendering (XSS protection)
- No data is sent to external services during normal page viewing
- No cookies or local storage are used
- No custom scripts are injected into the page
- The webpart operates within the standard SPFx security sandbox
- User photos for Person fields are loaded from the standard SharePoint endpoint (`/_layouts/15/userphoto.aspx`) — no third-party photo service is contacted