

Print Area Configuration - Bug Fix Report

Date: October 14, 2025

Overview

Fixed two critical bugs in the Print Area Configuration system that were preventing users from saving configurations after deleting print areas and uploading new product template images.

Bug #1: Save Configuration Error After Deleting Print Areas

Problem Description

When deleting a print area (e.g., the “Back” template for a tote bag) and clicking “Save”, the system threw an error:

```
Failed to save configuration: JSON object requested, multiple (or no) rows returned
```

Root Cause

The `getProductTemplate()` function in `supabaseService.js` was throwing an error when no product template existed in the database. This happened because:

1. The product was loaded from `products.json` (local config file)
2. It hadn't been saved to the Supabase database yet
3. When saving, the function tried to fetch the template with `.single()`
4. The `.single()` method threw an error when no rows were found
5. The error propagated up and caused the save to fail

The `saveProductConfiguration()` function expected `getProductTemplate()` to return `null` when no template was found, but instead it was throwing an error.

Solution

Modified `getProductTemplate()` to catch the “no rows found” error and return `null` instead of throwing:

```
if (error) {  
  // If no rows found, return null instead of throwing  
  if (error.code === 'PGRST116' || error.message.includes('no rows')) {  
    console.log('[getProductTemplate] No template found for:', productKey);  
    return null;  
  }  
  throw error;  
}
```

File Changed: `src/services/supabaseService.js` (lines 137-144)

Impact

- Users can now save configurations for products that haven't been saved to the database yet
- Deleting print areas and saving works correctly
- First-time saves create new database records as expected

Bug #2: Template Image Upload Not Displaying

Problem Description

When uploading a new product template image to replace the default template:

1. The upload appeared to succeed
2. Success message was displayed
3. However, the canvas continued showing the old template image
4. The new image was not visible in the editor

Root Cause

The `loadProduct()` function was using stale data from the `productsConfig` prop instead of the updated `currentProduct` state:

```
// OLD CODE - Bug
const product = productsConfig[selectedProduct]; // Uses prop (stale data)
setCurrentProduct(product); // Overwrites state with old data
```

When a template was uploaded:

1. `handleTemplateUpload()` updated `currentProduct` state with new template URL
2. `loadProduct()` was called to refresh the canvas
3. But `loadProduct()` immediately overwrote the state with old data from `productsConfig`
4. The old template URL was used to load the image

Solution

Modified `loadProduct()` to use the `currentProduct` state instead of the `productsConfig` prop:

```
// NEW CODE - Fixed
// Use currentProduct state instead of productsConfig prop
// This ensures we use the latest data, including newly uploaded template URLs
console.log('[PrintAreaAdmin] Using current product:', currentProduct);
```

Also improved template URL handling to support Supabase Storage URLs:

```
const fixedTemplateUrl = templateUrl.startsWith('http') ? templateUrl :
  (templateUrl.startsWith('/') ? templateUrl : `/${templateUrl}`);
```

Additionally, simplified `handleTemplateUpload()` by removing the manual `loadProduct()` call, letting the `useEffect` handle the refresh automatically when `currentProduct` changes.

Files Changed:

- `src/components/PrintAreaAdmin.jsx` (lines 182-206, 604-614)

Impact

- Uploaded template images now display immediately in the canvas
 - Both local file paths and Supabase Storage URLs work correctly
 - The canvas refreshes automatically when the template is updated
 - Cleaner code with better state management
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Testing Instructions

Test Bug #1 Fix: Save After Deleting Print Area

1. **Setup:**

- Navigate to <http://localhost:5173/enhanced-designer>
- Sign in as admin
- Select "Tote Bag" from the product dropdown
- Click the settings icon to open Print Area Configuration

2. **Test Steps:**

- Delete the "Back" print area by clicking the trash icon
- Click the "Save" button
- Observe the result

3. **Expected Result:**

- ☒ Configuration saves successfully
- ☒ Success message: "Configuration saved successfully to database!"
- ☒ No error messages appear
- ☒ The print area is removed from the database

4. **Verification:**

- Close the configuration modal
- Reopen it for the same product
- Confirm the "Back" print area is gone
- The "Front" print area should still be present

Test Bug #2 Fix: Template Image Upload

1. **Setup:**

- Navigate to <http://localhost:5173/enhanced-designer>
- Sign in as admin
- Select "Tote Bag" from the product dropdown
- Click the settings icon to open Print Area Configuration

2. **Test Steps:**

- Click the purple "Template" button
- Select a new product template image (any PNG/JPG image)
- Wait for the upload to complete
- Observe the canvas

3. **Expected Result:**

- ☒ Success message: "Template image uploaded successfully! Canvas will refresh automatically."
- ☒ The canvas displays the NEW template image immediately

- ☒ Print areas overlay correctly on the new template
- ☒ The image is properly centered and scaled

4. Verification:

- Click "Save" to persist the new template
- Close the configuration modal
- Reopen it for the same product
- Confirm the new template is loaded from the database
- The template should persist across page refreshes

Combined Test: Upload + Delete + Save

1. Test Steps:

- Upload a new template image
- Wait for the canvas to refresh
- Delete a print area (e.g., "Back")
- Click "Save"
- Close and reopen the configuration

2. Expected Result:

- ☒ All changes persist correctly
- ☒ New template is visible
- ☒ Deleted print area is gone
- ☒ No errors during any step

Technical Details

Changes Summary

File: `src/services/supabaseService.js`

- **Function:** `getProductTemplate()`
- **Lines Changed:** 137-144
- **Change Type:** Error handling
- **Description:** Added null return for "no rows found" error instead of throwing

File: `src/components/PrintAreaAdmin.jsx`

- **Function:** `loadProduct()`
- **Lines Changed:** 182-206
- **Change Type:** State management
- **Description:** Changed to use `currentProduct` state instead of `productsConfig` prop
- **Function:** `handleTemplateUpload()`
- **Lines Changed:** 604-614
- **Change Type:** Code simplification
- **Description:** Removed manual `loadProduct()` call, relying on `useEffect`

Dependencies

- No new dependencies added
- No breaking changes to existing code

- Backward compatible with existing configurations

Database Impact

- No schema changes required
 - Existing data remains intact
 - Works with both new and existing product templates
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Commit Information

Branch: fix-printarea-drag-20251013-155701

Commit Hash: 6665b6e

Commit Message: Fix critical bugs in Print Area Configuration

Next Steps

1.  Code changes completed
 2.  Build verified successful
 3.  Development server running
 4.  User acceptance testing
 5.  Merge to main branch
 6.  Deploy to production
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Notes for Deployment

- These fixes are ready for production
 - No database migrations needed
 - No environment variable changes required
 - Recommended to test in staging environment first
 - Monitor Supabase storage usage after template uploads
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Support

If you encounter any issues with these fixes, please:

1. Check the browser console for error messages
2. Verify Supabase connection is working
3. Ensure you're logged in as an admin user
4. Check that the product_templates storage bucket exists in Supabase

For questions or issues, contact the development team.