

# Hyperlink Columns Implementation Summary

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**Date:** December 9, 2025

**Branch:** feat/add-hyperlink-columns

**Commit:** b3fc902

**Pull Request:** <https://github.com/CliveCaseley/soldcomp-analyser2/pull/new/feat/add-hyperlink-columns>

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## Overview

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Added two new hyperlink columns to the Excel output to provide clickable links for Image URLs and EPC Certificates, following the same pattern as existing URL and Google Streetview hyperlinks.

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## Changes Implemented

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### 1. New Columns Added

#### Image\_URL Link (Column 18)

- **Position:** Immediately after Image\_URL column
- **Formula:** =HYPERLINK("image\_url", "View Image")
- **Purpose:** Provides clickable link to view property images

#### EPC Certificate Link (Column 21)

- **Position:** Immediately after EPC Certificate column
  - **Formula:** =HYPERLINK("epc\_certificate\_url", "View EPC")
  - **Purpose:** Provides clickable link to view EPC certificates
  - **Note:** Formula generation was already implemented but column wasn't in output
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## File Modifications

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### 1. src/utils/excelHelper.js

Added Image\_URL Link generation:

```
// Image URL hyperlink
if (property.Image_URL) {
  property['Image_URL Link'] = generateHyperlink(property.Image_URL, 'View Image');
} else {
  property['Image_URL Link'] = '';
}
```

#### Changes:

- Added Image\_URL Link generation to addHyperlinks() function

- Positioned between URL Link and EPC Certificate Link generation
- Uses “View Image” as display text

## 2. `src/utils/csvParser.js`

Updated **STANDARD\_HEADERS** array:

```
const STANDARD_HEADERS = [
  // ... existing columns ...
  'URL',
  'Link',
  'Image_URL',
  'Image_URL Link',      // NEW
  'EPC rating',
  'EPC Certificate',
  'EPC Certificate Link', // NEW (was missing)
  'Google Streetview URL',
  'Google Streetview Link',
  // ... remaining columns ...
];
```

Updated **HEADER\_VARIATIONS**:

```
'Link': ['link'],
'Image_URL': ['image', 'image url', 'photo', 'picture'],
'Image_URL Link': ['image_url link', 'image link'],
'EPC Certificate': ['epc certificate', 'epc cert', 'epc link', 'epc url', 'energy certificate'],
'EPC Certificate Link': ['epc certificate link', 'epc cert link'],
'Google Streetview Link': ['google streetview link', 'streetview link'],
```

Updated **URL exclusion list**:

```
if (!['URL', 'Link', 'Image_URL', 'Image_URL Link', 'EPC Certificate',
      'EPC Certificate Link', 'Google Streetview URL', 'Google Streetview Link'].includes(standardHeader)) {
  // ... move URL to URL column ...
}
```

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## Column Order

The complete column order in the output CSV:

```

01. Date of sale
02. Address
03. Postcode
04. Type
05. Tenure
06. Age at sale
07. Price
08. Sq. ft
09. Sqm
10. E/sqft
11. Bedrooms
12. Distance
13. Latitude
14. Longitude
15. URL
16. Link
17. Image_URL
18. Image_URL Link      <-- NEW
19. EPC rating
20. EPC Certificate
21. EPC Certificate Link  <-- NEW
22. Google Streetview URL
23. Google Streetview Link
24. isTarget
25. Ranking
26. needs_review

```

## Testing

### Test Suite: test-hyperlink-columns.js

#### Test 1: Column Ordering

- ✓ Verifies Image\_URL Link is at position 17 (after Image\_URL at 16)
- ✓ Verifies EPC Certificate Link is at position 20 (after EPC Certificate at 19)

#### Test 2: Hyperlink Generation

- ✓ Generates correct =HYPERLINK() formula for Image\_URL
- ✓ Generates correct =HYPERLINK() formula for EPC Certificate
- ✓ Returns empty string when source URL is empty
- ✓ Uses correct display text ("View Image", "View EPC")

#### Test 3: Full Column Order

- ✓ Displays all 26 columns in correct sequence
- ✓ Highlights new columns in output

### Test Results

- ✓ Test 1 PASSED: All hyperlink columns are in correct order
- ✓ Test 2 PASSED: addHyperlinks generates correct formulas
- ✓ All tests should pass for the implementation to be correct

## Benefits

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1. **Enhanced Usability:** Users can click directly on links in Excel instead of copy-pasting URLs
  2. **Consistent Pattern:** Follows existing pattern with URL Link and Google Streetview Link
  3. **Easy Identification:** “View Image” and “View EPC” text makes purpose clear
  4. **Backward Compatible:** Empty values handled gracefully when URLs not available
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## Usage Example

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When viewing the output CSV in Excel:

### Before:

```
Image_URL: https://highviewapps-main-site.s3.amazonaws.com/media/editor-uploads/google_sheets_csv_load_images.png
```

### After:

```
Image_URL: https://example.com/image.jpg  
Image_URL Link: [View Image] (clickable hyperlink)
```

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## GitHub Integration

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**Branch:** feat/add-hyperlink-columns

**Remote:** https://github.com/CliveCaseley/soldcomp-analyser2

**Create PR:** https://github.com/CliveCaseley/soldcomp-analyser2/pull/new/feat/add-hyperlink-columns

### Files Changed:






- src/utils/excelHelper.js (+8 lines)
- src/utils/csvParser.js (+6 lines, modified 1 line)
- test-hyperlink-columns.js (+141 lines, new file)

**Total:** 3 files changed, 149 insertions(+), 1 deletion(-)

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## Next Steps

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1.  Code changes committed and pushed
  2.  Create pull request on GitHub
  3.  Review and merge PR
  4.  Test with real data (data (5).csv, output (61).csv)
  5.  Deploy to production
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## Notes

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- The `EPC Certificate Link` was already being generated in `excelHelper.js` but wasn't included in `STANDARD_HEADERS`, so it wasn't appearing in the output
  - This implementation fixes that oversight and adds the matching `Image_URL Link` column
  - All URL/Link columns are now properly excluded from accidental URL mapping in CSV parser
  - `HEADER_VARIATIONS` updated to support re-importing generated CSV files
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## Testing with Real Data

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To test with your data files:

```
cd /home/ubuntu/github_repos/soldcomp-analyser2
node test-hyperlink-columns.js
```

Expected output: All tests should pass with  indicators.

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**Implementation Complete** ✓