

# Hyperlink Columns Implementation Summary

**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>

## Overview

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.

## Changes Implemented

### 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

## File Modifications

### 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'].in-
      cludes(standardHeader)) {
  // ... move URL to URL column ...
}
```

## 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. £/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

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

## Usage Example

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)
```

## GitHub Integration

**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(-)

## Next Steps

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

## 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 ✓**