Merge Conflict Resolution Summary

Date: December 10, 2025
Branch: fix/epc-accuracy
Conflict File: src/utils/epcHandler.js
Merge Commit: 79eb99b

Overview

Successfully resolved merge conflict between `fix/epc-accuracy` branch and `master` branch. The conflict arose because multiple PRs had modified the same file (`src/utils/epcHandler.js`):

1. **feat/add-hyperlink-columns** - Added Image_URL Link and EPC Certificate Link columns
2. **feat/final-tasks** - Implemented widow row removal and EPC rating extraction
3. **fix/epc-accuracy** - Enhanced EPC rating extraction with potential rating filtering

Conflict Details

Location

The conflict was in the `scrapeRatingFromCertificate()` function around lines 546-577.

Issue

- **fix/epc-accuracy (HEAD)**: Added critical filtering logic to exclude "potential rating" labels
- **master**: Did not have this filtering logic

Resolution Strategy

Combined all changes by keeping the enhanced version from `fix/epc-accuracy` which includes:
- ✅ Critical fix to filter out potential/improvement ratings
- ✅ All rating extraction methods from master (SVG, dt/dd, headings, tables, body text)
- ✅ Proper handling of "after completing" and "step" labels

Changes Merged

From feat/add-hyperlink-columns

- Added `Image_URL Link` column with hyperlink formulas
- Added `EPC Certificate Link` column with "View Certificate" display text
- Updated `src/utils/csvParser.js` header variations
- Enhanced `src/utils/excelHelper.js` with hyperlink generation

From feat/final-tasks

- Implemented widow row detection in `src/utils/dataSanitizer.js`
- Added `isWidowRow()` function to filter summary rows
- Enhanced `scrapeRatingFromCertificate()` with 5+ detection methods
- Added floor area scraping capability

From fix/epc-accuracy

- **CRITICAL FIX**: Exclude potential ratings to avoid extracting future/improvement ratings
- Filter out labels containing:
- "potential"
- "after completing"
- "step " (improvement steps)
- Ensures only current EPC ratings are extracted

Testing Results

All tests passed successfully after merge resolution:

test-final-tasks.js

```
✅ Widow row detection: PASSED
✅ EPC rating extraction: PASSED (Rating A extracted correctly)
```

test-epc-accuracy-fixes.js

```
Total Tests: 5
✅ Passed: 5
❌ Failed: 0

Test Cases:
1. Rating E for Spen Lea 317 Wharf Road - PASSED
2. Address matching for 307 Wharf Road (no match to 303) - PASSED
3. Rating G for 303 Wharf Road - PASSED
```

Verification Commands

```
# Verify syntax
node -c src/utils/epcHandler.js

# Run tests
node test-final-tasks.js
node test-epc-accuracy-fixes.js

# Check merge commit
git log --oneline -3
```

Branch Status

- **Branch:** fix/epc-accuracy
- **Merge Commit:** 79eb99b
- **Status:** ✅ Pushed to remote
- **Ready for PR:** Yes

Next Steps

1. The merge conflict is resolved and pushed
2. All changes from multiple PRs are properly combined
3. All tests are passing
4. Ready to create/update pull request for review

Files Modified

- `src/utils/epcHandler.js` - Merged all EPC enhancements
- `src/utils/csvParser.js` - (from master merge)
- `src/utils/dataSanitizer.js` - (from master merge)
- `src/utils/excelHelper.js` - (from master merge)

Conclusion

The merge conflict has been successfully resolved with all changes from the three branches properly combined. The critical fix from fix/epc-accuracy (filtering out potential ratings) is preserved, while all enhancements from feat/add-hyperlink-columns and feat/final-tasks are included. All tests pass, confirming the merge is stable and functional.