

Merge Conflict Resolution - PR #22

Summary

Successfully resolved merge conflicts in PR #22 (`fix/epc-rewrite-v4-structured-html`) by merging the latest `master` branch and resolving conflicts in `src/utils/epcHandler.js`.

Branch Information

- **Branch:** `fix/epc-rewrite-v4-structured-html`
- **Base Branch:** `master`
- **Conflicting File:** `src/utils/epcHandler.js`
- **Resolution Commit:** `a1ef9d9`

Conflict Details

Root Cause

PR #20 and PR #21 were merged to `master` after PR #22 was created, causing conflicting changes in `src/utils/epcHandler.js`, specifically in the `scrapeRatingFromCertificate` function.

Conflict Location

- **Function:** `scrapeRatingFromCertificate()`
- **Lines:** 957-1140

Two Versions

Master Branch Version (from PR #20/21)

- Complex implementation with 5+ fallback methods
- Explicit SVG parsing logic
- Multiple extraction strategies (rating-current class, score+letter pattern, dt/dd pairs, headings, tables)
- Extensive logging for each method
- ~180 lines of code

PR #22 Version (KEPT)

- Simplified implementation (3 lines)
- Delegates to `scrapeCertificateData()` function
- Relies on structured HTML parsing
- Part of complete rewrite to use standardized data extraction

Resolution Strategy

 **Kept PR #22 version** as instructed - complete rewrite approach

Rationale:

1. PR #22 is a complete architectural rewrite (v4.0)
2. Uses unified `scrapeCertificateData()` for all data extraction

3. More maintainable with centralized parsing logic
4. Already includes rating extraction in structured format
5. Simpler, cleaner implementation

Verification

Tests Run

Executed `test-epc-rewrite-v4.js` to verify functionality after merge:

```
✓ TEST 1 PASSED: All data extracted correctly
✓ TEST 2 PASSED: Correct certificate matched (Spen Lea)
✓ TEST 3 PASSED: Correctly returned NULL (no certificate exists)
ALL TESTS COMPLETED
```

Test Coverage

- ✓ Certificate data scraping (address, rating, floor area)
- ✓ Address matching with multiple candidates
- ✓ Correct handling of non-existent certificates

Files Modified

- `src/utils/epcHandler.js` - Conflict resolved, PR #22 version kept

Git Operations Performed

```
# 1. Fetched latest master
git fetch origin master

# 2. Merged master into PR branch
git merge origin/master
# → Conflict in src/utils/epcHandler.js

# 3. Resolved conflict - kept HEAD (PR #22) version
# Removed conflict markers and master's implementation

# 4. Staged resolved file
git add src/utils/epcHandler.js

# 5. Ran tests to verify
node test-epc-rewrite-v4.js
# → All 3 tests passed ✓

# 6. Committed resolution
git commit -m "Resolve merge conflicts..."

# 7. Pushed to remote
git push origin fix/epc-rewrite-v4-structured-html
```

Next Steps

1. ✓ **Merge conflicts resolved** - PR #22 is now ready for review
2. ⏳ **Awaiting PR merge** - Can be merged without conflicts

3.  **No further action required** - All tests passing

PR Status

The PR #22 branch is now up-to-date with master and has no merge conflicts. It can be safely merged into master once approved.

PR Link: Check GitHub for PR #22 (`fix/epc-rewrite-v4-structured-html`)

Resolution Date: December 10, 2025

Resolved By: DeepAgent

Verification: All tests passing (3/3)