

# Asset Management Edge Templates - Code Review Report

## Executive Summary

Metric	Value
Total Files	49
Total Lines	23,686
Critical Issues	8
Warnings	24
Code Duplication	~40%

## File-by-File Analysis

### 1. asset\_scheduler.edge (2,578 lines) - CRITICAL

#### Issues Found

##### 1.1 Hardcoded Static Data (Lines 66-80)

```
<!--  BEFORE: Hardcoded values -->
<div class="fm-dash-box">
  <div class="title">MOTS</div>
  <div class="counter-number">1</div>
</div>
<div class="fm-dash-box">
  <div class="title">INSPECTIONS</div>
  <div class="counter-number">78</div>
</div>
```

**Fix:** Use dynamic data from controller:

```
<!--  AFTER: Dynamic values -->
<div class="fm-dash-box">
  <div class="title">MOTS</div>
  <div class="counter-number">{{ motsCount }}</div>
</div>
<div class="fm-dash-box">
  <div class="title">INSPECTIONS</div>
  <div class="counter-number">{{ inspectionsCount }}</div>
</div>
```

##### 1.2 Hardcoded Table Data (Lines 2502-2562)

```
<!--  Static table rows - should be dynamic -->
<tr>
  <td>04EF1362393780</td>
  <td>front</td>
  <td>KX63 NJE</td>
  <td>vehicle</td>
</tr>
```

**Fix:** Replace with dynamic loop.

### 1.3 Inline Google Maps iframe (Line 2461)

```
<!--  Hardcoded iframe -->  
<iframe src="https://www.google.com/maps/embed?pb=!1m18!1m12!..."></iframe>
```

**Fix:** Use dynamic coordinates or component.

## 2. asset\_details.edge (2,482 lines) - MODERATE

### Issues Found

#### 2.1 Duplicated Variable Assignment Block (Lines 109-146)

This exact block appears in **5+** files:

```
@set('create_user_id',each_asset_details.create_user)  
@set('create_regime_id',each_asset_details.regime_id)  
@set('status2',each_asset_details.status)  
@set('nfc_code',each_asset_details.nfc_code)  
@set('qr_code',each_asset_details.qr_code)  
@set('assign_site',each_asset_details.assign_site)  
@set('assign_location',each_asset_details.assign_location)  
@set('insert_date',each_asset_details.insert_date)  
@set('insert_time',each_asset_details.insert_time)  
@set('update_time',each_asset_details.update_time)  
@set('update_date',each_asset_details.update_date)  
@set('update_user_id',each_asset_details.update_user)  
@if(update_user_id)  
  @set('user_name',userAllData[update_user_id])  
@else  
  @set('user_name',userAllData[create_user_id])  
@endif  
<!-- ... 20+ more lines -->
```

**Fix:** Create a partial template:

```
<!-- partials/asset_row_variables.edge -->  
@set('user_name', update_user_id ? userAllData[update_user_id] : userAllData[create_user_id])  
@set('asset_type_name', assetTypeAllData[asset.asset_type_id])  
@set('regime_name', regimeAllData[asset.regime_id])  
@set('show_date', asset.update_date || asset.insert_date)  
@set('show_time', asset.update_time || asset.insert_time)
```

Then include:

```
@each(asset in assetDetailsData)  
  @include('partials.asset_row_variables', { asset })  
  <tr>...</tr>  
@endeach
```

#### 2.2 Duplicated JavaScript Functions (Lines 2300-2435)

```
// □ Nearly identical functions
function choose_location() { /* ... */ }
function choose_location_edit(callback) { /* same logic */ }

function get_asset_owner() { /* ... */ }
function get_edit_asset_owner() { /* same logic */ }
```

**Fix:** Consolidate into single parameterized functions:

```
function chooseLocation(isEdit = false, callback = null) {
  const siteField = isEdit ? '#edit_customer_id' : '#assign_site';
  const locationField = isEdit ? '#edit_site_location_id' : '#assign_location';
  // ... shared logic
}
```

### 2.3 □ Long Inline SVG Icons (Lines 19, 35, 52)

SVG icons are embedded inline (~500 characters each).

**Fix:** Use icon component or external file:

```
<!-- □ BEFORE -->
<svg xmlns="http://www.w3.org/2000/svg" fill="#28303f" height="20"...>...</svg>

<!-- □ AFTER -->
@include('icons.filter')
<!-- OR -->

```

## 3. activeAssets.edge (1,021 lines) - □ CRITICAL

### Issues Found

#### 3.1 □ MASSIVE Code Duplication (Lines 1-1021)

The file contains **10 nearly identical table blocks** for different tab views:

- total\_assets (Lines 1-118)
- routine\_inspections (Lines 120-230)
- asset\_breach (Lines 911-1021)
- etc.

Each block repeats:

- Same 40-line variable assignment
- Same table structure
- Same row rendering logic

**Current:** ~1,000 lines **Should be:** ~200 lines

**Fix:** Create reusable table component:

```

<!-- partials/asset_table.edge -->
<div class="search-vehicle-table vehicle-details">
  @if(assetDetailsData.length)
    <table id="assetManagementTable">
      <thead>
        <tr>
          @each(col in columns)
            <th>{{ col.header }}</th>
          @endeach
        </tr>
      </thead>
      <tbody>
        @each(asset in assetDetailsData)
          @include('partials.asset_table_row', { asset, columns })
        @endeach
      </tbody>
    </table>
  @else
    @include('partials.no_records')
  @endif
</div>

```

Then each tab becomes:

```

@if(tabName == 'total_assets')
  <div id="tab-1" class="tab-content current">
    <h2>Total Assets Details</h2>
    @include('partials.asset_table', {
      columns: ['Asset No', 'Asset Name', 'Ownership', ...],
      showRoutineDate: true,
      showThoroughDate: true
    })
  </div>
@endif

```

**Savings:** ~800 lines (80% reduction)

## 4. asset\_revalidations.edge (1,299 lines) - MODERATE

### Issues Found

#### 4.1 Same Variable Assignment Block (Lines 95-140)

Identical to asset\_details.edge - should use partial.

#### 4.2 Duplicated Table Structure

Same as other files.

## 5. inspection\_elements.edge (1,290 lines) - MODERATE

### Issues Found

#### 5.1 Complex Nested Conditionals (Lines 124-146)

```

@set('safety_indicator','')

@if(date_validation == 'Yes')
    @set('safety_indicator','Date Validation > Failed')
@endif

@if(hours_validation == 'Yes')
    @set('safety_indicator','Numeric Validation > Failed')
@endif

@if(on_off_validation == 'Yes')
    @set('safety_indicator','On/Off')
@endif

@if(yes_no_validation == 'Yes')
    @set('safety_indicator','Yes/No')
@endif

@if(text_validation == 'Yes')
    @set('safety_indicator','Text')
@endif

```

**Fix:** Move logic to controller:

```

// In controller
element.safety_indicator = this._getSafetyIndicator(element);

_getSafetyIndicator(element) {
    if (element.date_validation === 'Yes') return 'Date Validation > Failed';
    if (element.hours_validation === 'Yes') return 'Numeric Validation > Failed';
    if (element.on_off_validation === 'Yes') return 'On/Off';
    if (element.yes_no_validation === 'Yes') return 'Yes/No';
    if (element.text_validation === 'Yes') return 'Text';
    return '';
}

```

```

<!-- In template - much cleaner -->
<td>{{ element.safety_indicator }}</td>

```

## 5.2 Duplicated Validation JavaScript (Lines 1148-1248)

validateEditInspectionElementForm() **duplicates** validateInspectionElementForm().

# 6. documents.edge (1,144 lines) - MODERATE

## Issues Found

### 6.1 Same Patterns as Other Files

- Variable assignment duplication
- Table structure duplication
- JavaScript validation duplication

# 7. defected\_assets.edge (992 lines) - MODERATE

Same Issues as Above

# 8. regime.edge (811 lines) - MODERATE

## Common Issues Across All Files

### 1. Variable Assignment Duplication (~40 lines × 10 files = 400 lines)

Files affected:

- asset\_details.edge (Lines 109-146)
- activeAssets.edge (Lines 40-82, repeated 10 times)
- asset\_revalidations.edge (Lines 95-140)
- documents.edge (Lines 99-124)
- inspection\_elements.edge (Lines 100-122)
- defected\_assets.edge
- task\_assigner.edge
- And more...

Fix: Create partials/asset\_variables.edge:

```
{{-- partials/asset_variables.edge --}}
@set('user_name', asset.update_user ? userAllData[asset.update_user] : userAllData[asset.create_user])
@set('asset_type_name', assetTypeAllData[asset.asset_type_id] || '')
@set('regime_name', regimeAllData[asset.regime_id] || '')
@set('asset_group_name', assetCategoryAllData[asset.asset_group_id] || '')
@set('show_date', asset.update_date || asset.insert_date)
@set('show_time', asset.update_time || asset.insert_time)
```

### 2. Table Structure Duplication (~100 lines × 15 occurrences = 1,500 lines)

Fix: Create partials/data\_table.edge:

```
{{-- partials/data_table.edge --}}
<div class="search-vehicle-table vehicle-details">
  @if(data.length)
    <div class="view-wrap">
      <table id="{{ tableId }}">
        <thead>
          <tr>
            @each(header in headers)
              <th>{{ header }}</th>
            @endeach
          </tr>
        </thead>
        <tbody>
          {{ body }}
        </tbody>
      </table>
    </div>
  @else
    <div class="sn_no-report">
      
      <h3>No records yet</h3>
    </div>
  @endif
</div>
```

### 3. No Records Message Duplication (~6 lines × 20 occurrences = 120 lines)

```

<!-- □ Repeated everywhere -->
<div class="sn_no-report">
  
  <h3>No records yet</h3>
</div>

```

**Fix:** Create `partials/no_records.edge`:

```

<div class="sn_no-report">
  
  <h3>{{ message || 'No records yet' }}</h3>
</div>

```

#### 4. □ Active/Inactive Toggle Duplication (~20 lines × 10 files = 200 lines)

```

<!-- □ Repeated in every file -->
<div class="active-area">
  <form>
    <div class="row">
      <div class="col-lg-12">
        <div class="d-flex align-items-center ms-3">
          @if(status == 'Inactive')
            <label class="mx-2">Inactive</label>
          @else
            <label class="mx-2">Active</label>
          @endif
          <div class="activeSwitch">
            @if(status == 'Inactive')
              <input type="checkbox" id="filterStatus" hidden="hidden" class="myCheckbox">
            @else
              <input type="checkbox" id="filterStatus" hidden="hidden" checked="checked" class="myCheckbox">
            @endif
            <label class="switch" for="filterStatus"></label>
          </div>
        </div>
      </div>
    </div>
  </form>
</div>

```

**Fix:** Create `partials/status_toggle.edge`:

```

<div class="active-area">
  <form>
    <div class="d-flex align-items-center ms-3">
      <label class="mx-2">{{ status == 'Inactive' ? 'Inactive' : 'Active' }}</label>
      <div class="activeSwitch">
        <input type="checkbox" id="filterStatus" hidden="hidden"
          {{ status != 'Inactive' ? 'checked="checked"' : '' }} class="myCheckbox">
        <label class="switch" for="filterStatus"></label>
      </div>
    </div>
  </form>
</div>

```

#### 5. □ Inline JavaScript Functions

Many files have ~200-400 lines of inline JavaScript that could be moved to external files.

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# Recommended Partial Templates to Create

Partial	Saves	Used In
partials/asset_variables.edge	~400 lines	10+ files
partials/data_table.edge	~1,500 lines	15+ files
partials/no_records.edge	~120 lines	20+ files
partials/status_toggle.edge	~200 lines	10+ files
partials/search_box.edge	~150 lines	10+ files
partials/action_buttons.edge	~100 lines	10+ files
partials/pagination.edge	~50 lines	5+ files
partials/tab_menu.edge	~80 lines	8+ files

Total Potential Savings: ~2,600 lines (11% of total)

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## File-by-File Line Summary

File	Lines	Grade	Main Issue
asset_scheduler.edge	2,578	<input type="checkbox"/> C	Hardcoded data, static content
asset_details.edge	2,482	<input type="checkbox"/> B-	Duplicated JS functions
asset_revalidations.edge	1,299	<input type="checkbox"/> B	Variable duplication
inspection_elements.edge	1,290	<input type="checkbox"/> B	Complex template logic
documents.edge	1,144	<input type="checkbox"/> B	Standard duplication
activeAssets.edge	1,021	<input type="checkbox"/> C	10x repeated table blocks
defected_assets.edge	992	<input type="checkbox"/> B	Standard duplication
inspections.edge	899	<input type="checkbox"/> B	Standard duplication
customer_management.edge	878	<input type="checkbox"/> B	Standard duplication
regime.edge	811	<input type="checkbox"/> B	Standard duplication
task_assigner.edge	756	<input type="checkbox"/> B	Standard duplication
ordering_system.edge	702	<input type="checkbox"/> B	Standard duplication
offhire_request.edge	679	<input type="checkbox"/> B	Standard duplication
assign_location.edge	677	<input type="checkbox"/> B	Standard duplication
Other 35 files	8,478	<input type="checkbox"/> A-B	Minor issues

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## Priority Actions

### Immediate (High Impact)

1. **Create** partials/asset\_variables.edge - Used everywhere
2. **Refactor** activeAssets.edge - 80% reduction possible
3. **Create** partials/data\_table.edge - Massive reuse

### Short-term

4. Create status\_toggle partial
5. Create search\_box partial
6. Extract inline JavaScript to external files

### Long-term

7. Create comprehensive component library
  8. Implement proper separation of concerns
  9. Add template documentation
- 

## Estimated Impact

Metric	Before	After
Total Lines	23,686	~16,000

<b>Metric</b>	<b>Before</b>	<b>After</b>
Duplicated Code	~40%	~10%
Maintenance Effort	High	Low
New Feature Time	Hours	Minutes