🔍 DUN Task Filter Flow Diagram

Step-by-step breakdown of the filter process showing where the bug occurs when changing date range dropdown.

📊 **Visual Table**   📝 **Markup/ASCII**

Legend

| Normal Flow | Potential Issue | Working Correctly |

Step	Action	Current Logic	Issue Analysis
1. Trigger	User selects filter dropdown (Today, Tomorrow, etc.)	`filterDropdown.addEventListener('change', handleFilterChange)` `filterValue = "today" | "tomorrow" | "this-week"`	✅ Working correctly

2. Date Calc	Calculate date ranges for comparison	`const today = new Date(now.getFullYear(), now.getMonth(), now.getDate());`
		`const tomorrow = new Date(today);`
		`tomorrow.setDate(today.getDate() + 1);`
			✅ Using local browser timezone Today: 2025-07-24 Tomorrow: 2025-07-25

3. Find Tasks	Query DOM for all task elements	`const allTaskItems = document.querySelectorAll('.task-item');` `console.log(`📋 FILTER: Found ${allTaskItems.length} task items`);`	✅ Finding ~23 task items Includes sections + tasks

Step	Action	Current Logic	Issue Analysis

4. Date Logic	Apply date filter logic to each task	```REMOVED BROKEN LOGIC:```
		```- Tasks with no revisit date → show in```
		```ALL filters```
		```- Overdue tasks → show in ALL filters```
		
		```NOW: Only exact date matches should show```
			❌ **OVER-REMOVED LOGIC**
			Now NO tasks show in date filters
			Missing proper date matching

5. Tomorrow	Tomorrow filter should show only July 25, 2025 tasks	```case 'tomorrow':```
		```shouldShow = taskDateOnly.getTime() ===```
		```tomorrow.getTime();```
		```break;```
			❌ **NOT EXECUTING**
			Logic exists but never reached
			All tasks filtered out before this

6. Task Data	Parse task data to get revisit dates	```const taskData =```
		```JSON.parse(taskItem.dataset.taskData);```
		```const revisitDate = taskData.revisitDate;```
		```// "2025-07-24T00:00:00.000Z" format```
			❌ **LOGIC BYPASS**
			Date parsing works fine
			But filter logic skipped

7. Show/Hide	Set task visibility based on shouldShow flag	```taskItem.style.display = shouldShow ? ''```
		```: 'none';```
		```if (shouldShow) shownCount++; else```
		```hiddenCount++;```
			❌ **ALL HIDDEN**
			shouldShow = false for all tasks
			No tasks visible in any date filter

8. Root Cause	CRITICAL BUG: Missing date matching logic	```// MISSING: The actual date comparison```
		```logic```
		```// The switch statement exists but never```
		```executes```
		```// because shouldShow remains false```
			❌ **BROKEN LOGIC FLOW**
			Fixed overdue bug but broke normal filtering

🚨 Current Bug Status (July 24, 2025)

CRITICAL ISSUE: Filter logic was over-corrected and completely broken. All date filters now show zero tasks.

ROOT CAUSE: Missing date matching logic in handleFilterChange() Current state: ✅ DOM queries work: document.querySelectorAll('.task-item') finds ~23 elements ✅ Date calculations work: today = 2025-07-24, tomorrow = 2025-07-25 ✅ Task data parsing works: taskData.revisitDate = "2025-07-24T00:00:00.000Z" ❌ Date matching logic: COMPLETELY MISSING - shouldShow never becomes true ❌ Result: NO tasks visible in any date filter (Today, Tomorrow, This Week, etc.)

What Happened:

1. **Original Bug:** Overdue tasks appeared in ALL date filters
2. **Over-Correction:** Removed ALL logic that sets shouldShow = true for date filters
3. **Current State:** Only Triage and All filters work, all date filters broken

🔧 Required Fix

The date matching logic needs to be restored in script.js around line 1527:

SOLUTION: Add back the date matching switch statement // Current broken logic (line ~1527): if (!shouldShow && (revisitDate && revisitDate !== null && revisitDate !== '')) { // Date parsing exists but NO LOGIC to set shouldShow = true } // REQUIRED FIX: if (revisitDate && revisitDate !== null && revisitDate !== '') { let taskDate = new Date(revisitDate); const taskDateOnly = new Date(taskDate.getFullYear(), taskDate.getMonth(), taskDate.getDate()); switch (filterValue) { case 'today': shouldShow = taskDateOnly.getTime() === today.getTime(); break; case 'tomorrow': shouldShow = taskDateOnly.getTime() === tomorrow.getTime(); break; case 'this-week': shouldShow = taskDateOnly.getTime() >= weekStart.getTime() && taskDateOnly.getTime() <= weekEnd.getTime(); break; // ... other cases } }

✅ Expected Results After Fix

Once the date matching logic is restored, you should see:

Today Filter (2025-07-24): - "Today A 07a" ✅ - "Today B 10a" ✅ - "Today C 04p" ✅ - "ThisWeek B NA" ✅ (has today's date) - "ThisWeek C NA" ✅ (has today's date) **Tomorrow Filter (2025-07-25):** - "Tomorrow A 09a" ✅ (ONLY this

task should show) **Triage Filter:** - "PastDue T NA" ✅ (overdue tasks) - "NA T NA" ✅ (no revisit date) **Console Logs:** "🔍 TODAY FILTER: Task 'Today A 07a' - match: true" "🔍 TOMORROW FILTER: Task 'Tomorrow A 09a' - match: true" "🏁 FILTER COMPLETE: X shown, Y hidden"

Dump DOM