

Bugs Found: Chrome browser (Version 138.0.7204.184 (Official Build))

Bug#1

Bug Title:

Active status count mismatch between summary and list (summary shows 3, list shows 2)

Description

The UI summary displays "Active: 3", and the API (`GET /api/equipment`) returns three items with status "Active", but the detailed equipment list only shows two Active items. This inconsistency between the summary and the list indicates a data/display synchronization issue and can mislead users about the actual state.

Steps to Reproduce

1. Call `GET /api/equipment` and verify equipments count with status "Active".
2. Open the application UI and observe the summary indicator showing "Active: 3".
3. Compare the counts and note the discrepancy: summary/API show 3, list shows 2.

Expected Result

The number of Active items should be consistent across the summary, the detailed list, and the API response. It should be same as the API response and displayed in the list.

Actual Result

The summary shows "Active: 3" and the API returns 2 Active items, and two Active items appear in the list view as well.

Severity

High

Priority

P2

Type

Functional

The screenshot shows a web-based application titled "Equipment Status Tracker". The header includes a back arrow, a refresh icon, and the URL "qa-assignment-omega.vercel.app". Below the header is a sub-header "Equipment Status Tracker" and a subtitle "Monitor and manage equipment status in real-time". On the right side of the header are two buttons: "Refresh" (blue) and "Add Equipment" (green). The main content area is titled "Equipment List (7 items)" and displays the following data:

EQUIPMENT	LOCATION	STATUS	LAST UPDATED	ACTIONS
Excavator CAT 320 ID: 1	Site A	Idle	8/3/2025, 11:23:16 AM	Idle <button>▼</button> History
Bulldozer Komatsu D65 ID: 2	Site B	Idle	1/15/2024, 1:15:00 PM	Idle <button>▼</button> History
Crane Liebherr LTM ID: 3	Workshop	Under Maintenance	1/14/2024, 8:45:00 PM	Under Maintenance <button>▼</button> History
Loader Volvo L120 ID: 4	Site C	Active	1/15/2024, 3:20:00 PM	Active <button>▼</button> History
Dump Truck Terex TA300 ID: 5	Yard	Idle	1/15/2024, 12:30:00 PM	Idle <button>▼</button> History
ID: 6	Site D	Under Maintenance	8/3/2025, 11:24:18 AM	Under Maintenance <button>▼</button> History
Excavator Test CAT 321 ID: 7	Site AB	Active	8/3/2025, 11:37:47 AM	Active <button>▼</button> History

In API response:

Request:

```
curl --location 'https://qa-assignment-omega.vercel.app/api/equipment' \
--header 'accept: application/json'
```

Response:

```
{
  "success": true,
  "data": [
    {
      "id": 1,
      "name": "Excavator CAT 320",
      "status": "Idle",
      "location": "Site A",
      "lastUpdated": "2025-08-03T07:23:16.288Z"
    },
    {
      "id": 2,
      "name": "Bulldozer Komatsu D65",
      "status": "Idle",
      "location": "Site B",
      "lastUpdated": "2024-01-15T13:15:00.000Z"
    },
    {
      "id": 3,
      "name": "Crane Liebherr LTM",
      "status": "Under Maintenance",
      "location": "Workshop",
      "lastUpdated": "2024-01-14T20:45:00.000Z"
    },
    {
      "id": 4,
      "name": "Loader Volvo L120",
      "status": "Active",
      "location": "Site C",
      "lastUpdated": "2024-01-15T15:20:00.000Z"
    },
    {
      "id": 5,
      "name": "Dump Truck Terex TA300",
      "status": "Idle",
      "location": "Yard",
      "lastUpdated": "2024-01-15T12:30:00.000Z"
    },
    {
      "id": 6,
      "name": "Excavator Test CAT 321",
      "status": "Under Maintenance",
      "location": "Site D",
      "lastUpdated": "2025-08-03T11:24:18.000Z"
    },
    {
      "id": 7,
      "name": "Excavator CAT 320",
      "status": "Active",
      "location": "Site AB",
      "lastUpdated": "2025-08-03T11:37:47.000Z"
    }
  ]
}
```

```
        "lastUpdated": "2024-01-15T09:15:00Z"
    },
    {
        "id": 3,
        "name": "Crane Liebherr LTM",
        "status": "Under Maintenance",
        "location": "Workshop",
        "lastUpdated": "2024-01-14T16:45:00Z"
    },
    {
        "id": 4,
        "name": "Loader Volvo L120",
        "status": "Active",
        "location": "Site C",
        "lastUpdated": "2024-01-15T11:20:00Z"
    },
    {
        "id": 5,
        "name": "Dump Truck Terex TA300",
        "status": "Idle",
        "location": "Yard",
        "lastUpdated": "2024-01-15T08:30:00Z"
    },
    {
        "id": 6,
        "name": "",
        "status": "Under Maintenance",
        "location": "Site D",
        "lastUpdated": "2025-08-03T07:24:18.110Z"
    },
    {
        "id": 7,
        "name": "Excavator Test CAT 321",
        "status": "Active",
        "location": "Site AB",
        "lastUpdated": "2025-08-03T07:37:47.317Z"
    }
],
"count": 7
}
```

Bug#2

Bug Title:

Failed to update equipment status from Under Maintenance to Active or Idle

Description

When attempting to change an equipment item's status from "Under Maintenance" to either "Active" or "Idle", the operation fails and an error message is shown: "failed update the status". The status remains stuck at "Under Maintenance". This breaks a core workflow and prevents accurate state tracking.

Steps to Reproduce

1. Open the Equipment Status Tracker application with an equipment item currently in "Under Maintenance" or update the status of an item/equipment to "Under Maintenance"
2. Open the status dropdown for that item.
3. Select "Active" (repeat for "Idle" in a separate attempt).
4. Observe the error message and the resulting status.
5. Optionally retry the change to confirm the failure is consistent.

Expected Result

The status should successfully update to the selected value ("Active" or "Idle"), the badge should reflect the new status, and the change should be recorded in the history without any error message.

Actual Result

An error message "failed update the status" appears, and the equipment remains in "Under Maintenance". The status does not change and no successful update is recorded.

Severity

High

Priority

P1

Type

Functional

qa-assignment-omega.vercel.app

Equipment Status Tracker

Monitor and manage equipment status in real-time

Equipment List (7 items)

Active: 3 | Idle: 2 | Maintenance: 3

EQUIPMENT	LOCATION	STATUS	LAST UPDATED	ACTIONS
Excavator CAT 320 ID: 1	Site A	Under Maintenance	8/3/2025, 12:11:28 PM	Active Idle ✓ Under Maintenance History
Bulldozer Komatsu D65 ID: 2	Site B	Idle	1/15/2024, 1:15:00 PM	Idle History
Crane Liebherr LTM ID: 3	Workshop	Under Maintenance	1/14/2024, 8:45:00 PM	Under Maintenance History
Loader Volvo L120 ID: 4	Site C	Active	1/15/2024, 3:20:00 PM	Active History
Dump Truck Terex TA300 ID: 5	Yard	Idle	1/15/2024, 12:30:00 PM	Idle History
ID: 6	Site D	Under Maintenance	8/3/2025, 11:24:18 AM	Under Maintenance History
Excavator Test CAT 321 ID: 7	Site AB	Active	8/3/2025, 12:09:21 PM	Active History

qa-assignment-omega.vercel.app

Equipment Status Tracker

Monitor and manage equipment status in real-time

Equipment List (7 items)

Active: 3 | Idle: 2 | Maintenance: 3

EQUIPMENT	LOCATION	STATUS	LAST UPDATED	ACTIONS
Excavator CAT 320 ID: 1	Site A	Under Maintenance	8/3/2025, 12:11:28 PM	Under Maintenance History
Bulldozer Komatsu D65 ID: 2	Site B	Idle	1/15/2024, 1:15:00 PM	Idle History
Crane Liebherr LTM ID: 3	Workshop	Under Maintenance	1/14/2024, 8:45:00 PM	Under Maintenance History
Loader Volvo L120 ID: 4	Site C	Active	1/15/2024, 3:20:00 PM	Active History
Dump Truck Terex TA300 ID: 5	Yard	Idle	1/15/2024, 12:30:00 PM	Idle History
ID: 6	Site D	Under Maintenance	8/3/2025, 11:24:18 AM	Under Maintenance History
Excavator Test CAT 321 ID: 7	Site AB	Active	8/3/2025, 12:09:21 PM	Active History

Failed to update status

Network DevTools Network Tab

Request URL: https://qa-assignment-omega.vercel.app/api/equipment/
 Request Method: POST
 Status Code: 200 OK
 Remote Address: 64.29.176.74:433
 Referrer Policy: strict-origin-when-cross-origin

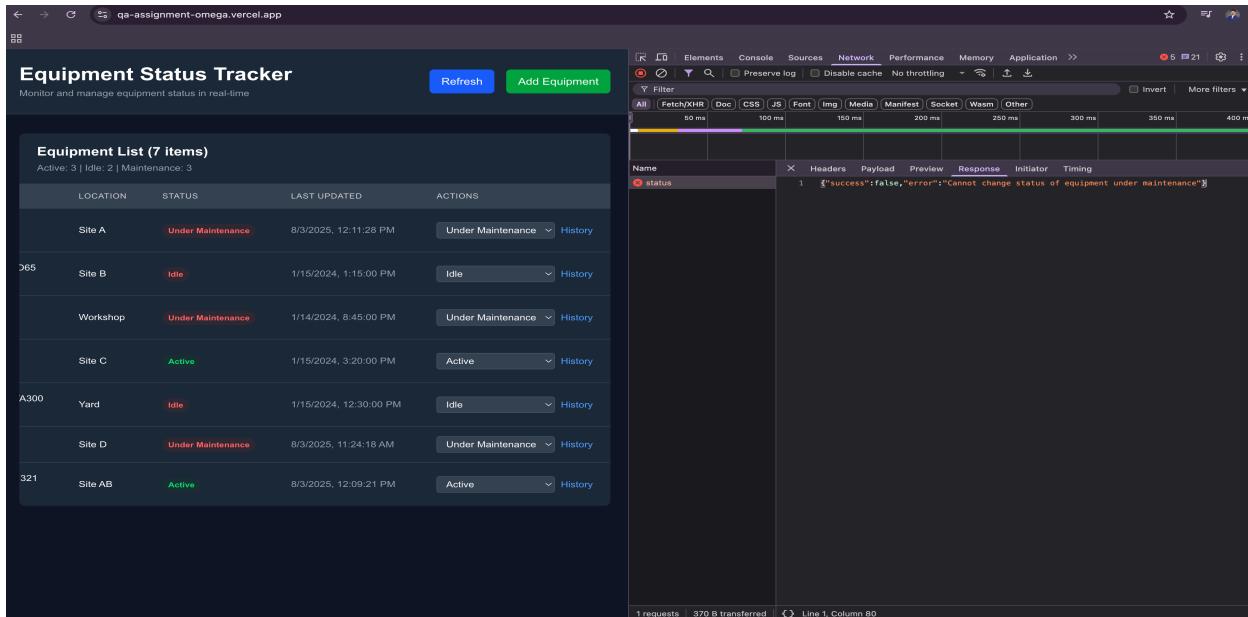
Response Headers:

- Cache-Control: public, max-age=0, must-revalidate
- Content-Type: application/json
- Date: Sun, 03 Aug 2025 08:14:22 GMT
- Server: Vercel
- Strict-Transport-Security: max-age=63072000; includeSubDomains; preload
- Vary: RSC, Next-Router-State-Tree, Next-Router-Prefetch
- X-Matched-Path: /api/equipment/1/status
- X-Vercel-Cache: MISS
- X-Vercel-Id: dxb1-lid1-hk7kk-175420861967-bf45674d1811

Request Headers:

- :authority: qa-assignment-omega.vercel.app
- :method: POST
- :path: /api/equipment/1/status
- :scheme: https
- Accept: */*
- Accept-Encoding: gzip, deflate, br, zstd
- Accept-Language: en-US,en;q=0.9
- Content-Length: 40
- Content-Type: application/json
- Origin: https://qa-assignment-omega.vercel.app
- Priority: u=1,i
- Referer: https://qa-assignment-omega.vercel.app/
- Sec-Ch-Ua: "NotA[Brand]";v="8", "Chromium";v="138", "Google Chrome";v="138"
- Sec-Ch-Ua-Mobile: 70
- Sec-Ch-Ua-Platform: "Windows"

1 requests 370 B transferred



Bug# 3

Bug Title:

Equipment history modal does not open after status is set to Under Maintenance

Description

After changing an equipment item's status to "**Under Maintenance**", clicking the "History", it does not open/respond. The user is unable to view the status change history for that item, blocking visibility into recent transitions.

Steps to Reproduce

1. Open the Equipment Status Tracker application.
2. Select an equipment item and change its status to "Under Maintenance".
3. Confirm the status update is reflected in the badge.
4. Click the "History" button/link for that equipment.
5. Observe that the history modal does not open/respond.

Expected Result

The history modal should open and display the full sequence of status changes for the equipment, including the transition to "Under Maintenance".

Actual Result

Clicking "History" after setting status to "Under Maintenance" doesn't respond; the history view does not open and no information is shown.

Severity

High

Priority

P1

Type

Functional

The screenshot shows the 'Equipment Status Tracker' application interface. At the top, there is a header bar with a back arrow, forward arrow, refresh icon, and a search bar containing 'qa-assignment-omega.vercel.app'. Below the header is a dark navigation bar with a grid icon and a user profile icon.

The main content area has a title 'Equipment List (7 items)' and a subtitle 'Monitor and manage equipment status in real-time'. It displays a table with the following data:

EQUIPMENT	LOCATION	STATUS	LAST UPDATED	ACTIONS
Excavator CAT 320 ID: 1	Site A	Under Maintenance	8/3/2025, 12:11:28 PM	Under Maintenance ▾ History
Bulldozer Komatsu D65 ID: 2	Site B	Idle	1/15/2024, 1:15:00 PM	Idle ▾ History
Crane Liebherr LTM ID: 3	Workshop	Under Maintenance	1/14/2024, 8:45:00 PM	Under Maintenance ▾ History
Loader Volvo L120 ID: 4	Site C	Idle	8/3/2025, 12:22:20 PM	Idle ▾ History

Before updating status, history is shown

The screenshot shows a modal window titled 'Status History - Loader Volvo L120'. The window displays a list of status changes:

- Active → Idle (Changed by: Operator) - 8/3/2025, 12:22:20 PM
- Idle → Active (Changed by: Operator) - 8/3/2025, 12:17:06 PM
- Active → Idle (Changed by: Operator) - 8/3/2025, 12:16:46 PM
- Idle → Active (Changed by: Operator David) - 1/15/2024, 3:20:00 PM

After updating status as 'under maintenance', history button is not responding

Equipment List (8 items)				
Active: 2 Idle: 2 Maintenance: 5				
EQUIPMENT	LOCATION	STATUS	LAST UPDATED	ACTIONS
Excavator CAT 320 ID: 1	Site A	Under Maintenance	8/3/2025, 12:11:28 PM	Under Maintenance ▾ History
Bulldozer Komatsu D65 ID: 2	Site B	Idle	1/15/2024, 1:15:00 PM	Idle ▾ History
Crane Liebherr LTM ID: 3	Workshop	Under Maintenance	1/14/2024, 8:45:00 PM	Under Maintenance ▾ History
Loader Volvo L120 ID: 4	Site C	Under Maintenance	8/3/2025, 12:27:25 PM	Under Maintenance ▾ History
Dump Truck Terex TA300 ID: 5	Yard	Idle	1/15/2024, 12:30:00 PM	Idle ▾ History
ID: 6	Site D	Under Maintenance	8/3/2025, 11:24:18 AM	Under Maintenance ▾ History
Excavator Test CAT 321 ID: 7	Site AB	Active	8/3/2025, 12:09:21 PM	Active ▾ History
Excavator Test CAT 322 ID: 8	Warehouse	Under Maintenance	8/3/2025, 12:30:08 PM	Under Maintenance ▾ History

Bug# 4

Bug Title:

Missing validation for Equipment Name and Equipment Location when adding new equipment

Description

The add equipment form does not enforce proper validation on the Equipment Name and Equipment Location fields. Users can create the Equipment by enter numbers only or special characters only, excessively long strings, without any warning or error. As a result, equipment records are created with invalid data.

Steps to Reproduce

1. Open the add equipment form by clicking on 'Add Equipment' button.
2. Enter special characters (*\$%#@{}) or potentially unsafe input (e.g., <script>, SQL-like fragments) in Name or Location and submit.
3. Enter an excessively long string (e.g., 500+ characters) in Name or Location and submit.
4. Observe that the form accepts these values and the new equipment appears in the list with the invalid Name/Location.

Expected Result

The form should validate Equipment Name and Location before submission:

- Enforce reasonable length limits (e.g., max 100 characters).
- Either restrict or sanitize unsafe/special characters.
- Provide clear inline error messages when validation fails and prevent submission until corrected.

Actual Result

The form accepts overly long, and special-character-laden values for Equipment Name and Location without any error or feedback. Equipment is created with these invalid values.

Severity

Medium

Priority

P2

Type

Validation

A screenshot of a web browser showing a modal dialog titled "Add New Equipment". The modal contains three input fields: "Equipment Name" with the value "@@@@@", "Initial Status" with the value "Active", and "Location" with the value "SITE A". Below the inputs are two buttons: "Cancel" and "Add Equipment". The "Equipment Name" field has a red border, indicating it is invalid. The "Add Equipment" button is disabled.

A screenshot of a web browser showing a table titled "Equipment List (11 items)". The table has columns: EQUIPMENT, LOCATION, STATUS, LAST UPDATED, and ACTIONS. Below the table, there is a network tab in the developer tools showing a successful API request to "/api/equipment". The response payload is:

```
{
  "success": true,
  "data": [
    {
      "id": 1,
      "name": "Excavator CAT 320",
      "location": "Site A",
      "status": "Active",
      "lastUpdated": "2024-08-01T15:00:00Z"
    },
    ...
    {
      "id": 11,
      "name": "Test Idle ActiveC7",
      "location": "Test Suite",
      "status": "Idle",
      "lastUpdated": "2025-08-01T15:00:00Z"
    }
  ]
}
```

← → ⌂ qa-assignment-omega.vercel.app

Add New Equipment

Equipment Name *

Initial Status *

Location *

Cancel Add Equipment

ID	Name	Type	Status	Last Updated	Action	History
ID: 16	Test Idle to Active4e	Test Site	Active	8/3/2025, 1:39:44 PM	Active	
ID: 17	Test Active to Under MaintenanceD	Test Site	Under Maintenance	8/3/2025, 1:40:07 PM	Under Maintenance	
ID: 18	Test Active to Under MaintenanceSF	Test Site	Under Maintenance	8/3/2025, 1:40:10 PM	Under Maintenance	
ID: 19	Test Active to Idlezx	Test Site	Idle	8/3/2025, 1:40:28 PM	Idle	
ID: 20	Test Idle to ActiveA2	Test Site	Active	8/3/2025, 1:40:53 PM	Active	
ID: 21	Test Maintenance to ActiveYK	Test Suite	Under Maintenance	8/3/2025, 1:40:53 PM	Under Maintenance	
ID: 22	Test Maintenance to Active3R	Test Suite	Under Maintenance	8/3/2025, 1:40:54 PM	Under Maintenance	
ID: 23	Test Maintenance to IdleK	Test Suite	Under Maintenance	8/3/2025, 1:41:11 PM	Under Maintenance	
ID: 24	Test Maintenance to ActiveXt	Test Suite	Under Maintenance	8/3/2025, 1:41:24 PM	Under Maintenance	
ID: 25	Test Maintenance to IdleF	Test Suite	Under Maintenance	8/3/2025, 1:41:44 PM	Under Maintenance	
ID: 26	Excavator CAT 323	123%^&*()@	Under Maintenance	8/3/2025, 1:42:18 PM	Under Maintenance	

Name: equipment

```

    "success": true,
    "data": {
      "id": 26,
      "name": "Excavator CAT 323",
      "status": "Under Maintenance",
      "location": "123%^&*()@",
      "lastUpdated": "2025-08-03T09:42:18.973Z"
    }
  }
}
  
```

Headers: Headers

Payload: Payload

Preview: Preview

Response: Response

Initiator: Initiator

Timers: Timers

2 requests 1.0 kB transferred

Bug#5

Bug Title:

500 Internal Server Error on rapid page refresh after status update (especially for equipment created via API)

Description

After updating the status of an equipment item (Equipment created via API), rapidly refreshing the page—either by clicking the browser refresh icon multiple times or repeatedly hitting the in-app refresh button—causes a 500 Internal Server Error. The failure also surfaces more generally when a user quickly triggers multiple refreshes in succession after a status change.

Steps to Reproduce

1. Create an equipment item via the API (`POST /api/equipment`).
2. Open the application UI and locate that equipment.
3. Update its status (e.g., change to Idle then Active).
4. Immediately after the status update, rapidly refresh the page multiple times by:
 - o Scenario A: Clicking the browser refresh/reload icon repeatedly.
 - o Scenario B: Clicking the in-app refresh button repeatedly.
5. Observe that a 500 Internal Server Error is displayed.
6. Repeat the same for any equipment (not just API-created) by updating status and doing rapid refreshes to confirm reproducibility.

Expected Result

The page should handle rapid refresh requests gracefully. Status updates should persist, and repeated refresh actions should show appropriate loading/feedback without resulting in a server error. No 500 error should be thrown.

Actual Result

A 500 Internal Server Error is shown after rapid successive refreshes following a status update. The application fails to recover cleanly, and the user cannot reliably see the current equipment state.

Severity

High

Priority

P1

Type

Functional/UI

Equipment created through API:

The screenshot shows a Postman interface with the following details:

- Method:** POST
- URL:** https://qa-assignment-omega.vercel.app/api/equipment
- Body (JSON):**

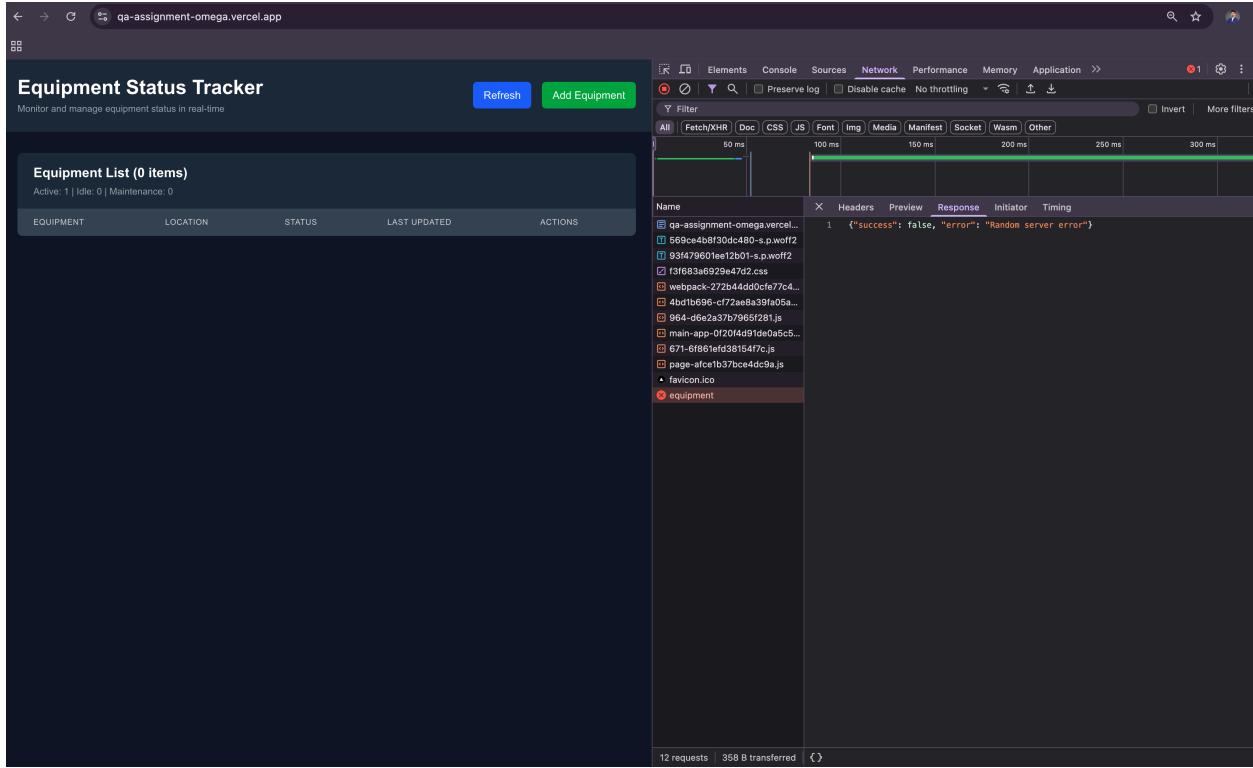
```
1 {
2   "name": "Excavator Test CAT 323",
3   "status": "Active",
4   "location": "Site ABB"
5 }
```
- Response Status:** 201 Created
- Response Body (JSON):**

```
1 {
2   "success": true,
3   "data": {
4     "id": 31,
5     "name": "Excavator Test CAT 323",
6     "status": "Active",
7     "location": "Site ABB",
8     "lastUpdated": "2025-08-03T10:00:07.366Z"
9   }
10 }
```

On frontend /web

The screenshot shows a browser window with the following details:

- Title:** Equipment Status Tracker
- Content:** Equipment List (0 items)
- Network Tab:** Shows a list of network requests and their timing. One request, labeled "equipment", has a status bar message: "Failed to fetch equipment".
- Status Bar:** https://qa-assignment-omega.vercel.app/api/equipment
- Page Footer:** 12 requests 274 B transferred



Bug#6

Bug Title:

Duplicate scrollbar appears when scrolling history modal

Description

When the history modal is opened for equipment with enough entries to require scrolling, two scrollbars are visible: the modal's internal scrollbar and the page-level/outer scrollbar. As the user scrolls inside the modal, the outer page scrollbar is also displayed and can move, causing visual clutter.

Steps to Reproduce

1. Open the Equipment Status Tracker application.
2. Select equipment with a long history (enough entries to enable scrolling).
3. Click the "History" button to open the history modal.
4. Scroll within the modal content.
5. Observe that both the modal has its own scrollbar and the surrounding page also shows a scrollbar (and may scroll or appear active).

Expected Result

Only the history modal should displays a scrollbar when its content overflows. The background page should not show an active scrollbar or scroll while the modal is being interacted with, keeping focus and scroll behavior confined to the modal.

Actual Result

Both the modal and the underlying page display scrollbars when the history content is scrolled, leading to duplicate scroll indicators and possible background movement.

Severity

Low

Priority

P3

Type

UI / UX

Attachment:

Screen recording is attached

Bug#7

Bug Title:

Redundant flicker: “Refreshing” button state and global loader appear together

Bug Summary:

When the user triggers a refresh—either by clicking the in-app refresh button or using the browser's reload control—the UI shows two overlapping loading indicators: the refresh button switches to “Refreshing” briefly, along with the global page-level loader appears. The result is a visually redundant flicker/hand-off that can confuse users about the progress of the action.

Steps to Reproduce

1. Open the Equipment Status Tracker with equipment already loaded.
2. Scenario A: Click the in-app refresh button.
3. Scenario B: Click the browser reload/refresh icon (full page reload).
4. In both scenarios, observe the sequence of loading feedback: first the refresh control changes state, then the global loader appears immediately after.
5. Note the quick transition/flicker between the two indicators.

Expected Result

One clear, non-conflicting loading indicator is presented. The refresh button should not change to refreshing when there is already a page loader.

Actual Result

Both the button-level “Refreshing” indicator and the global page loader appear in rapid succession, causing a visual flicker and redundant feedback.

Severity

Low

Priority

P3

Bug Type

UI / UX

Attachment:

Screen recording attached