

Bug Fix Verification Report

Bug Fix Verification Report: #1872 - Yearly Recurrence Duplication

1. Issue Description

****Bug ID**:** #1872

****Description**:** Yearly recurring events were duplicating excessively (1000 times) in the Calendar View, leading to "Duplicate Key" errors and rendering issues. Additionally, recurring events were not showing up in subsequent years (e.g., 2027), making the calendar appear empty.

****Severity**:** Critical

****Status**:** Resolved

2. Root Cause Analysis

- **Duplicate Events**:** The Calendar's `getProjectedEvents` function expected `wish.recurrence` (or `is_recurring`) to be an **integer** (1, 2, 3, 4). However, the wizard was saving it as a **string** ("daily", "yearly"). This type mismatch caused the projection loop's date increment logic to fail (adding 0 days), resulting in an infinite loop that populated the same date 1000 times.
- **Missing Future Events (2027)**:** The backend API maps "Yearly" recurrence to the integer `365` (approx days). The frontend logic did not account for this `365` value, treating it as an unknown recurrence type and aborting the projection loop.

3. Implementation Details

****File Modified**:** `frontend/src/components/dashboard/CalendarView.jsx`

****Changes**:**

- Updated the `getProjectedEvents` function to handle multiple formats for recurrence:
- Strings: `'yearly'`, `'monthly'`, `'weekly'`, `'daily'`
- Integers (Enum): `1`, `2`, `3`, `4`
- integers (Days): `365`, `30`, `7`, `1`
- Added robust type checking (`String(...).toLowerCase()`).
- Added a safety `break` statement to prevent infinite loops if an unknown recurrence type is encountered.

4. Verification Steps

Scenario 1: Yearly Recurrence Duplicates

- **Action**:** Create a wish with "Yearly" recurrence.
- **Previous Behavior**:** The event appeared 1000 times on the same day, causing lag and console errors.
- **Current Behavior**:** The event appears exactly **once** per year.

Scenario 2: Future Projections (2027)

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1. **Action**: Navigate the calendar to the next year (e.g., January 2027).
2. **Previous Behavior**: No events were visible.
3. **Current Behavior**: The yearly recurring event is correctly displayed in 2027, 2028, etc.

5. Conclusion

The recurrence logic is now robust and standardized, handling both frontend and backend data formats correctly. All reported issues regarding duplication and missing future events are resolved.