

Classroom Reservation & Conflict-Free Scheduling System

A zero-maintenance, purpose-built classroom scheduling tool created for **Jacob Levy** — Neurodivergent Career Coach, Special Educator — to help manage shared learning spaces with structure, predictability, and fairness.

This system isn't just about eliminating double-bookings. It's about giving neurodivergent students the stable environments they deserve, and giving educators the tools to support them — without clutter, chaos, or confusion.

Purpose

In most schools, room scheduling is a mess. Emails. Dry erase boards. Conflicting requests. Last-minute confusion.

This project fixes that by: - Creating a 5-day rolling classroom schedule - Logging every booking with full transparency - Flagging any double-bookings instantly - Automatically archiving old submissions every night

And it does all this without anyone needing to manage it. Once set up, it runs itself.

How It Works

Step 1: Submit a Classroom Request

- Teachers fill out a simple Google Form selecting:
- Date
- Time
- Classroom
- Subject & student needs

Step 2: Booking Is Logged

- The submission is instantly stored in `Form Responses 1`
- A full copy is saved to `Booking Log` — a permanent record for audit or admin use

Step 3: Classroom Inventory Updates Live

- A tab called `Classroom Inventory` displays a rolling 5-day matrix
- Each classroom/time/date cell is marked Available or In Use
- Teachers can check before submitting

Step 4: Double Booking Detection

- If two people submit the same Classroom + Date + Time:
- A `Conflict?` column flags it immediately as “⚠ Double Booked”

Step 5: Nightly Auto-Cleanup

- Every night at 12:00 AM:
- Submissions with dates before today are moved to `Archive`
- The `Conflict?` logic is reinserted into `Form Responses 1`
- The system keeps itself clean without breaking

Bonus: Manual Regenerate Button

- An optional button in `Classroom Inventory` allows schedule refresh
- When clicked, it asks:

“Are you sure you want to regenerate the schedule? This will erase the current matrix.”

- Clicking yes rebuilds the upcoming 5 weekdays
- All formulas are protected, nothing breaks

What's Included

Component	Purpose
Google Form	Where teachers submit classroom requests
Form Responses 1	Live submission data
Booking Log	Permanent audit trail of all requests
Classroom Inventory	5-day visual grid of availability
Archive	Auto-populated with entries older than today
Conflict Detection	Auto-flags double bookings in real time

Why It's Built to Last

- Protected ranges prevent accidental edits
- Status and conflict formulas auto-repair nightly
- Logic is modular and script-based — not manually maintained
- Impossible to break from the front-end unless you enter the code editor

This system is designed for schools. But more than that, it's designed for the people in them — especially those who thrive on consistency.

Why It Matters







For neurodivergent students, **routine is security**.

This system protects that — by protecting their space. It minimizes friction. It eliminates confusion. And it gives educators like Jacob Levy the backend system they've always needed, but never had.

No more chasing down schedules. No more guessing who's using what room. No more surprises.

Just clarity.

Admin Use Summary

-  Submit via the Google Form
-  Check Classroom Inventory before requesting
-  Review conflicts in Form Responses 1 (Column H)
-  Use  Regenerate button when you want to refresh the schedule manually
-  Let the system archive automatically every night

No maintenance. No spreadsheets. No stress.

Project Details

- Version: 1.1
- Created by: Joe Leto
- Built for: Jacob Levy — Neurodivergent Career Coach, Special Educator
- Date Locked: June 20, 2025