WORK ASSIGNMENTS FOR SCHEDOOL

Frontend

- UI Design & Implementation (May)
 - Build a reservation form (inputs: name, date, time, duration, room, etc.)
 - Implement calendar/schedule view with filter options (by date, room, user, etc.)
 - Add controls for add, edit, and delete reservations
- Backend Integration (May)
 - Directly call backend (JS modules) from frontend actions (no API layer)
- Validation (May)
 - Validate form inputs (format, required fields, data type)
 - Display backend results: success messages, conflict warnings, or errors

Backend (Node.js with SQLite)

- Database & Models (Poon & Win)
 - Define SQLite schema for reservations (tables: rooms, reservations, etc.)
 - Implement connection, basic CRUD and query helpers for SQLite
- Reservation Management (Poon)
 - Add, edit, and delete reservation functions
 - Implement conflict checking (prevent overlapping/double bookings)
- Additional Features (Beam)
 - Export function: export reservations with selected format
 - Rule-based recommendation system (e.g., suggest available slots or rooms)
- Testing (Win)
 - Unit tests for CRUD, conflict detection, and export functions

Other Tasks

- Documentation (*All member*)
 - Setup guide: how to run the program (dependencies, SQLite setup)
 - Developer guide: code structure, how frontend calls backend modules
 - User guide: how to use reservation form, filters, export, etc.
- Test flow (Beam)
 - Define test cases for each user action (add, edit, delete, export, conflicts)
 - End-to-end test: simulate user flow from frontend to backend
- Demo Data Preparation (Beam)
 - Seed SQLite with sample rooms, users, and reservations
 - Ensure demo data includes edge cases (overlapping times, near-full schedule)