Hiring Challenge - 2: Next.js Scheduler - Google Calendar Integration (Seller / Buyer)

Build a Next.js app where there are two persona Buyer and Seller.

Sellers integrate their Google account to expose calendar availability on their dashboard and buyers can sign in with Google, and on Appointment Booking Page they can pick a Seller, view available slots, and book an appointment which is created on both participants' Google Calendars.

Details of Scheduled Appointment must be displayed to both persons on a different tab called Appointments.

Constraints

1. **Framework**: Strictly use **Next.js**— JavaScript **or** TypeScript. Pick one and use it consistently across the project.

2. **Authentication**: Google sign-in (OAuth2) for both Seller and Buyer. No custom username/password.

3. **Calendar**: Use Google Calendar API to fetch availability and create events. Required scopes at minimum:

   - `openid email profile`

   - `https://www.googleapis.com/auth/calendar.events` (for creating events)

   - `https://www.googleapis.com/auth/calendar.readonly` (or calendar if you need read+write)

4. **Deployment**: Must be deployed to **Vercel** and live on a public URL. Include the URL in submission.

5. **Language**: JS or TS only, Serverless API routes in Next.js (API routes or app directory handlers).

6. **DB**: Persist Sellers and (securely stored) refresh token/metadata — any DB is OK (MongoDB, SQLite, Postgres, Supabase, etc.). Include DB URL as env on Vercel.

7. **Repository**: Public GitHub repo with clear README and deployment instructions.

User roles & flow (required)

1. **Seller**:

   ○ Signs in with Google from Seller Dashboard.

   ○ During sign-in, Seller is asked to grant Calendar scopes.

   ○ The server stores the Seller record and a refresh token (encrypted / in DB) so app can fetch calendar availability.

   ○ Seller dashboard shows their calendar view and a simple availability editor (optional — see minimum vs bonus).

2. **Buyer**:

   ○ Signs in with Google from Buyer side.

   ○ Buyer goes to **Set Appointment** page: sees a searchable list of Sellers.

   ○ Buyer clicks a Seller → Seller's available time slots are shown (based on free/busy and/or Seller-provided availability).

   ○ Buyer picks an available slot and confirms booking.

   ○ Booking creates an event on **both** Google Calendars (Buyer & Seller) with attendee list and location/Google Meet link (if possible).

   ○ Both Buyer and Seller see the event in their calendars.