gform-gen

A small admin tool to **programmatically create, rediscover, and aggregate Google Forms**.

- **No database**
- **Google Drive / Forms as the single source of truth**
- **Stateless by design**

[Live demo](#)

What it does

- Create meeting-specific Google Forms via API
- Fetch and aggregate **real Google Forms responses**
- Rediscover previously created forms from Google Drive
- Switch between multiple forms without persistence
- Export attendee lists as PDF
- Share forms via link or QR code

Design principles

- **Stateless**

    - No form metadata is stored
    - Google Drive / Forms is the only persistent layer

- **Identifiable forms**

    - Forms are tagged in their titles (e.g. `[gformgen:sangaku]`)
    - Enables Drive-based discovery without a DB

- **Clear separation of concerns**

    - Form creation: `FormEditor`
    - Aggregation & sharing: `StatsViewer`

- **Safe UX**

    - Creation and aggregation flows are intentionally separated

Tech stack

- Frontend: React + Vite

- Backend: Node.js + Express

- Google APIs:

- OAuth 2.0
- Forms API
- Drive API

- PDF: `jspdf`, `jspdf-autotable`

- QR: `qrcode.react`

Running locally

```
git clone <repo-url>
cd gform-gen

npm install
cd backend && npm install && cd ..

# backend/.env
GOOGLE_CLIENT_ID=...
GOOGLE_CLIENT_SECRET=...

# start servers
cd backend && npm run dev
cd .. && npm run dev
```

Notes

- OAuth tokens are kept **in memory**

  - Backend restart ⇒ re-login required

- Production usage requires:

  - A production OAuth client
  - Proper redirect URI configuration
  - A running backend (frontend is hosted on Vercel)

Philosophy

- Treat Google Drive as the database. Everything else is just a view.