
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
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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
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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](#)
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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)
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Philosophy

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