

Serengo

your passport to local friendships

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SECONDO
Fogliata di manzo
con rucola e grana €18,90

Stinco di manzo con
patate e al forno €14,90



INHOUDSOPGAVE

1. Wat is Serengo

- Wat?
- Wie?

2. Hoe werkt Serengo

- ERD
- Architectuur
- Deployment
- Extra

3. Demo

WAT IS SERENGO?



- Locatie-gebaseerde sociale webapplicatie
- Een kaart
- "Finds": documenteren, waarderen & delen
- Sociale interacties
- Realtime & gebruiksvriendelijke updates
- Notificaties & PWA

VOOR WIE IS SERENGO?

Primair

- Vriendengroepen & kennisenkringen
- Lokale communities
- Reizigers & Explorers

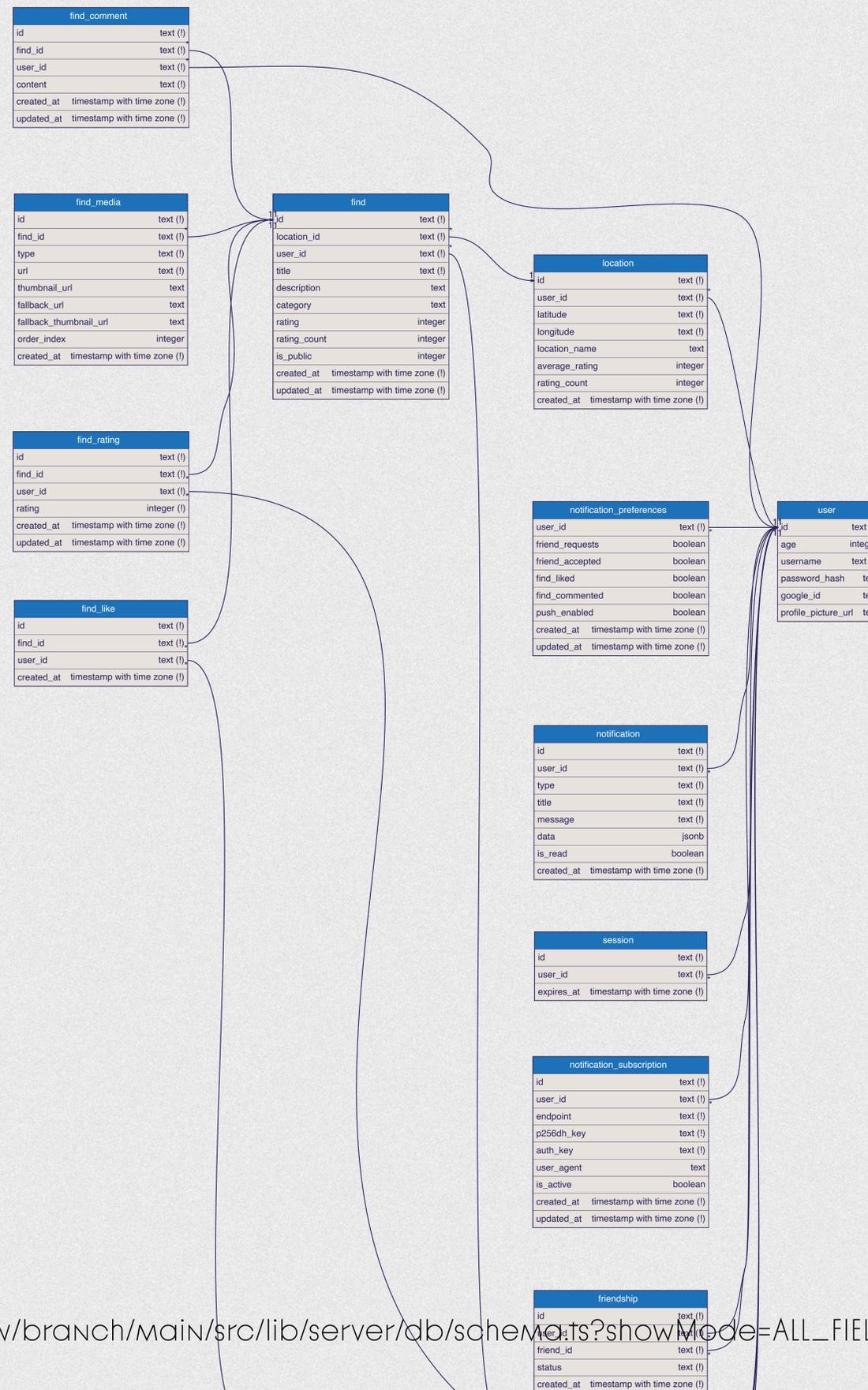
Secundair

- Individuele gebruikers
- Early adopters & ontwikkelaars

HOE WERKT SERENGO?

ERD

HOE WERKT SERENGO?



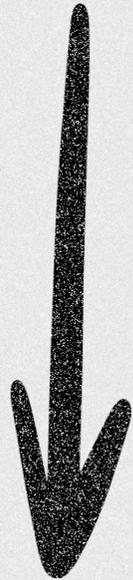
https://liambx.com/erd/p/git.zias.be/zias/serengo/raw/branch/main/src/lib/server/db/schema.ts?showMode=ALL_FIELDS

ARCHITECTUUR

HOE WERKT SERENGO?

Opbouw

- UI: Svelte 5
- Hulpsfuncties: (o)auth, db, media, push, R2
- API: sync-service & api-sync store
- Data: Drizzle ORM



ARCHITECTUUR

HOE WERKT SERENGO?

Presentatielaag (UI)

- src/lib/components
- Svelte 5 componenten
- Gegroepeerd
- Skeletons voor loading states
- File-based routing
- Gebruikt in src/routes/*/+page.svelte

```
.../src/lib/components
→ components git:(main) × 1
Permissions Size User Date Modified Name
drwxr-xr-x - zias 30 Dec 2025 auth
drwxr-xr-x - zias 3 Oct 2025 avatar
drwxr-xr-x - zias 30 Dec 2025 badge
drwxr-xr-x - zias 30 Dec 2025 button
.rw-r--r-- 1.1k zias 15 Dec 2025 Button.svelte
drwxr-xr-x - zias 3 Oct 2025 card
.rw-r--r-- 12k zias 16 Jan 14:00 demo.rec
drwxr-xr-x - zias 3 Oct 2025 dropdown-menu
.rw-r--r-- 349 zias 28 Sep 2025 ErrorMessage.svelte
drwxr-xr-x - zias 30 Dec 2025 finds
.rw-r--r-- 824 zias 30 Dec 2025 Header.svelte
drwxr-xr-x - zias 3 Oct 2025 input
.rw-r--r-- 796 zias 15 Dec 2025 Input.svelte
drwxr-xr-x - zias 3 Oct 2025 label
drwxr-xr-x - zias 30 Dec 2025 locations
drwxr-xr-x - zias 30 Dec 2025 map
drwxr-xr-x - zias 30 Dec 2025 media
.rw-r--r-- 5.5k zias 30 Dec 2025 Modal.svelte
drwxr-xr-x - zias 30 Dec 2025 notifications
drwxr-xr-x - zias 30 Dec 2025 profile
drwxr-xr-x - zias 30 Dec 2025 sheet
drwxr-xr-x - zias 3 Oct 2025 skeleton
drwxr-xr-x - zias 3 Oct 2025 sonner
→ components git:(main) ×
```

ARCHITECTUUR

HOE WERKT SERENGO?

Domein- en servicelaag

- Svelte stores, hulpfuncties & server-side services
- `src/lib/store`, `src/lib/utils` & `src/lib/server`
- (O)Auth adhv Lucia auth (<https://lucia-auth.com/>)
- Media processing
- Push-notifications
- R2 communicatie

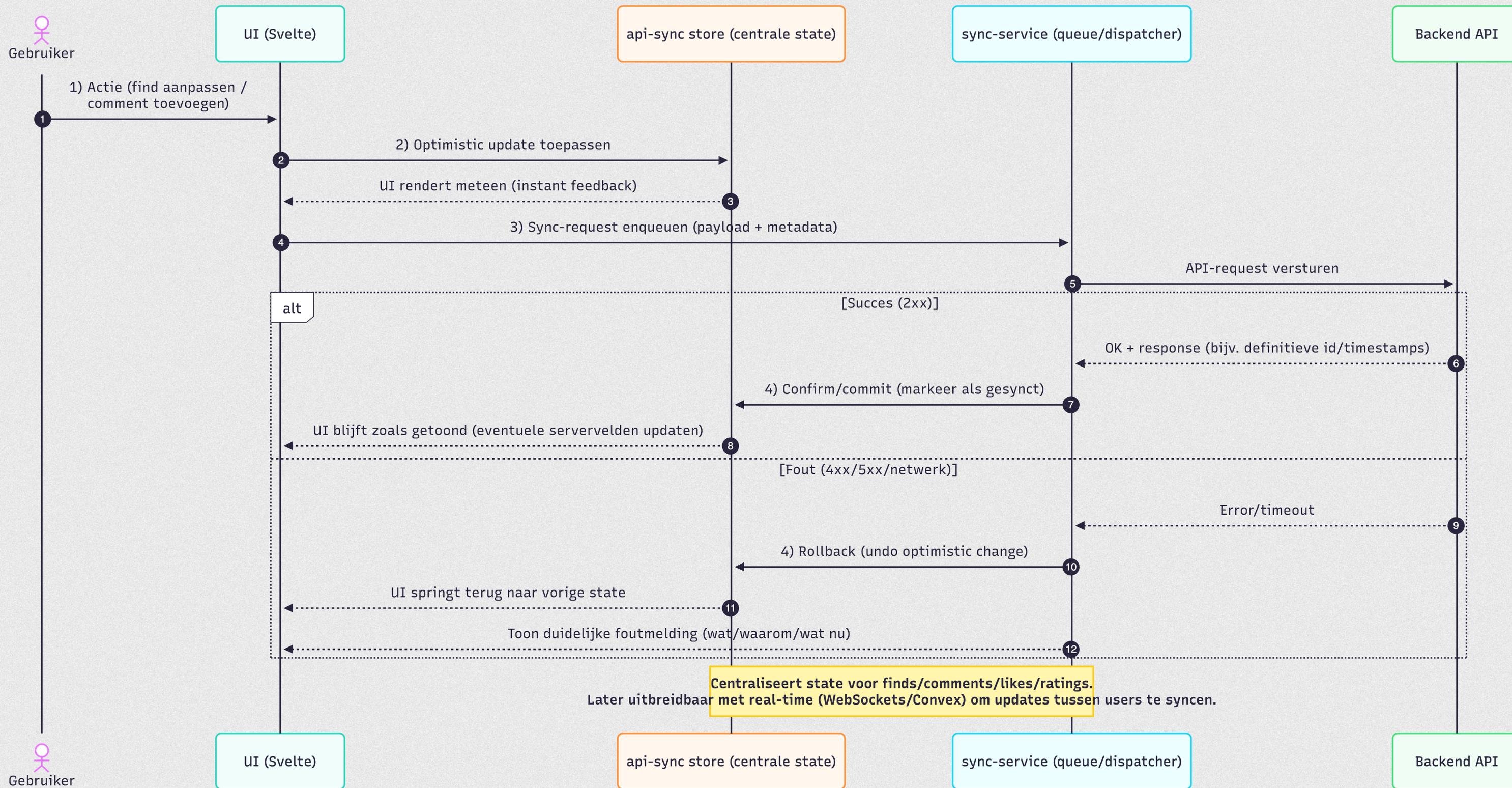
ARCHITECTUUR

API-laag

- CRUD voor finds, friends, locations, media (R2), notifications, Google Places, profile-picture, users
- src/routes/api/*

```
→ api git:(main) l notifications
Permissions Size User Date Modified Name
.rw-r--r-- 2.5k zias 30 Dec 2025 TS +server.ts
drwxr-xr-x - zias 30 Dec 2025 count
drwxr-xr-x - zias 30 Dec 2025 preferences
drwxr-xr-x - zias 30 Dec 2025 subscribe
→ api git:(main) l places
Permissions Size User Date Modified Name
.rw-r--r-- 2.3k zias 30 Dec 2025 TS +server.ts
→ api git:(main) l profile-picture
Permissions Size User Date Modified Name
drwxr-xr-x - zias 30 Dec 2025 delete
drwxr-xr-x - zias 30 Dec 2025 upload
→ api git:(main) l users
Permissions Size User Date Modified Name
.rw-r--r-- 2.8k zias 30 Dec 2025 TS +server.ts
→ api git:(main)
```

```
→ api git:(main) l
Permissions Size User Date Modified Name
drwxr-xr-x - zias 30 Dec 2025 finds
drwxr-xr-x - zias 30 Dec 2025 friends
drwxr-xr-x - zias 30 Dec 2025 locations
drwxr-xr-x - zias 30 Dec 2025 media
drwxr-xr-x - zias 30 Dec 2025 notifications
drwxr-xr-x - zias 30 Dec 2025 places
drwxr-xr-x - zias 30 Dec 2025 profile-picture
drwxr-xr-x - zias 30 Dec 2025 users
→ api git:(main) l finds
Permissions Size User Date Modified Name
.rw-r--r-- 7.5k zias 30 Dec 2025 TS +server.ts
drwxr-xr-x - zias 30 Dec 2025 [findId]
drwxr-xr-x - zias 30 Dec 2025 comments
drwxr-xr-x - zias 30 Dec 2025 upload
→ api git:(main) l friends
Permissions Size User Date Modified Name
.rw-r--r-- 6.3k zias 30 Dec 2025 TS +server.ts
drwxr-xr-x - zias 30 Dec 2025 [friendshipId]
→ api git:(main) l locations
Permissions Size User Date Modified Name
.rw-r--r-- 8.1k zias 30 Dec 2025 TS +server.ts
→ api git:(main) l media
Permissions Size User Date Modified Name
drwxr-xr-x - zias 30 Dec 2025 [...path]
```



ARCHITECTUUR

HOE WERKT SERENGO?

Data-laag

- PostgreSQL-database
- Drizzle ORM
- Type-safe

Cloudflare R2 bucket

- S3 compatibel
- Opslag van media
- Signed URLs

Gecentreerd rond locaties

- Eerst op basis van finds
- Data-normalisatie
- Beter performance
- Functionaliteit per locatie

Integraties

- R2
- Google OAuth (Lucia)
- Google Places
- Web push

DEPLOYMENT

HOE WERKT SERENGO?

Dockerfile

- 2 stages: build & app
- node:20-alpine
- compacte image
- health-checks

docker-entrypoint.sh

- database migraties met drizzle

docker-compose.yml

- 2 containers: postgres & app

EXTRA

HOE WERKT SERENGO?

API-documentatie

- Gemaakt met Mintlify
- <https://docs.zias.be/>

Serengo

- Gehost op mijn Hetzner VPS
- Proxied via Cloudflare (HTTPS, Caching, DDOS, ...)
- <https://serengo.zias.be/>

Selfhosted git

- Gitea
- In toekomst vlot runners (actions) zelf te hosten
- <https://git.zias.be/zias/serengo/>

DEMO