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Assignment: Password Generator + Secure Vault (MVP)

Tech stack: front end: next js (!imp)

database:Mongo

Backed: either next js or Node js (as per your suitability)

Also use typescript if favroble to write code!

Goal

Build a small web app where a user can:

1. **Generate** a strong password
2. **Save** it to a personal vault
3. **View / edit / delete** saved entries in a clean panel

Keep it fast, simple, and privacy-first.

Must-haves

- Password generator (length slider, include numbers/letters/symbols, exclude look-alikes).
- Simple auth (email + password).
- Vault items: title, username, password, URL, notes.
- **Client-side encryption** for vault items (you can pick the library), so server never stores plaintext.
- Copy to clipboard with auto-clear.

- Basic search/filter in the list.

Nice-to-have (optional)

- 2FA (TOTP)
- Tags/folders
- Dark mode
- Export/import (encrypted file)

Constraints (light)

- Any stack is fine. Prefer TypeScript if you're comfortable.
- Host anywhere free.
- Keep UI minimal and fast (no heavy themes).
- No secrets in logs.

Deliverables

- Live demo URL
- Repo link with README (how to run)
- Short note: what you used for crypto and why (2–3 lines)
- 60–90 sec screen-record showing the flow (generate → save → search → edit → delete)

Acceptance (quick)

- I can sign up, log in, add an item, and see only encrypted blobs in the DB/network.
- Generator works and feels instant.

- Copy clears itself after ~10–20s.
- Basic search returns expected items.

Timebox

- 3–5 working days. Ship a rough version early; polish after.

Inspiration (optional mention)