Challenge: Multi-Form Builder (Optional AI Assist)

Overview

Build a small full-stack web app where:

- An **admin** can create multiple custom forms.

- Each form has sections and fields.

- **Optional:** The admin can use **OpenAI** to auto-generate section and field ideas.

- Each form has its own public URL for anyone to fill out.

The goal is to demonstrate your **full-stack skills** and optionally your **AI integration skills**.

Timebox

Spend **no more than 2-4 hours** on this challenge.
Partial solutions are fine — explain what you'd do next in your README.

User Stories

1. Admin

- I can log in with hardcoded credentials (e.g., `admin / password123`).

- I can create a **new form** by:

    - Adding up to **2 sections**

    - Adding up to **3 fields per section**

- ○ Choosing field types: `text` or `number`

- **(Optional)** I can click **"Generate with AI"** and:

  - ○ Pass a short prompt to OpenAI (e.g., "A job application form")

  - ○ Receive suggested section names & field labels from the API

- I can save the form and get a **unique public link** like `/form/[uuid]`.

- I can view a list of all created forms with their public links.

2. Public User

- I can visit the public form link.

- I see the form exactly as the admin designed it.

- I can fill and submit the form.

- I see a confirmation message after submission.

Tech Requirements

- **Frontend:** Next.js + Tailwind CSS

- **Backend:** Next.js API routes + Prisma + SQLite
- **Language:** Typescript

- **Optional AI Integration:**

  - ○ Use the `OPENAI_API_KEY` environment variable.

  - ○ Call OpenAI's **Chat Completions API** to generate section and field suggestions.

  - ○ Parse the AI output into a structured format usable in your form builder.

Submission

Submit via zip file or github repo.