

Trend Video Frontend Architecture

Overview

- Single-page Next.js 16 (App Router) with React 19 + TypeScript.
- Tailwind CSS v4 beta styling and custom gradients.
- Local storage persists filter presets (trend-video-filters).

Server Routes

- POST /api/search proxies YouTube Data API, filters, enriches stats.
- POST /api/pipeline fetches captions, builds prompt bundle for LLM tools.

Client Behaviour

- Home component manages filters, selection grid, and automation actions.
- Memoised views maintain responsiveness across large result sets.
- pushLog keeps a 50-line activity feed of API calls.

Data Flow

1. Operator tunes filters and triggers fetch.
2. Browser posts payload to /api/search (requires YOUTUBE_API_KEY).
3. Results populate grid; selected items post to /api/pipeline.
4. Pipeline response opens GPT/Gemini/Claude/Groq tabs with prompts.

Notes

- Default YouTube query: "korea trending" (adjust in search route).
- Duration filter uses API seconds or ISO 8601 parsing.