
LAYER 1: INTERFACE & CONTROL



Next.js 15

App Router UI. React 19 Server Components for high-performance rendering.



BullMQ / Redis

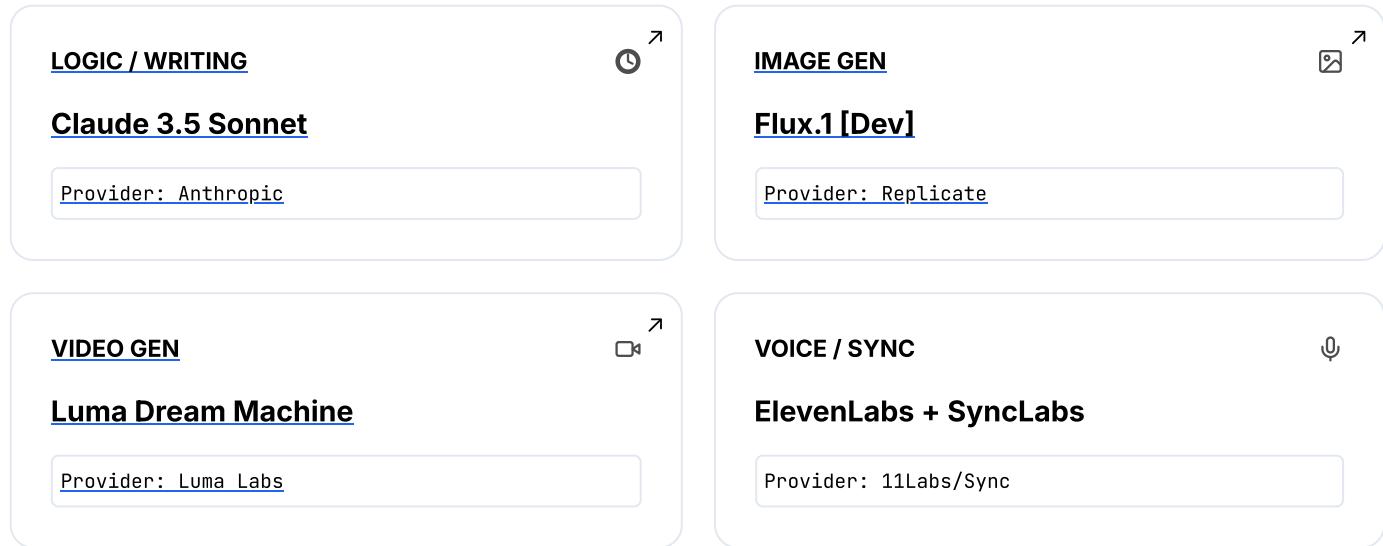
Reliable job queue for managing complex video generation pipelines.



PostgreSQL

Core relational DB + pgvector. Stores World State & Character JSON.

LAYER 2: THE MODEL ZOO (CLOUD APIs)



LAYER 3: INFRASTRUCTURE & DOCS



Quarto Executable Scripting

Converts Markdown into Hybrid Documents with embedded metadata.

```
Input: story.md  
Process: Agent injects [object JSON] Metadata  
Output 1: script.pdf (Human Review)  
Output 2: script.json (Video Driver)
```



Cloud-Local Asset Mirror

GitHub

Version Control

Local CLI

Orchestrator

AWS S3 / R2

Heavy Assets

```
npm run asset:sync
```

■ Frontend (Next.js)

■ Video (Luma)

■ Database (Supabase)

■ Writing (Claude)