

THE CONTINUUM FLOW TECH STACK

Production-Grade Architecture for AI Video Generation

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.

Provider: Anthropic

```
Provider: Replicate
```

Provider: Luma Labs

Provider: 11Labs/Sync

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)

■ Database (Supabase)

■ Video (Luma)

■ Writing (Claude)