Project Name: Ghostart

A scalable Al-powered LinkedIn content platform designed for thought leadership, employee advocacy, and brand content automation.

- Tech Stack & Hosting
- Frontend: Next.js (App Router) on Vercel
- Styling: TailwindCSS
- ☑ Backend: Supabase (PostgreSQL, RLS, Edge Functions)
- ✓ Caching: Redis (User Data, Al Content, Engagement Metrics)
- ✓ Al Services: Python backend on Render (OpenAl-powered content)
- Queue System: Task scheduling for Al content, analytics, email triggers
- External APIs: LinkedIn API (OAuth, posting, analytics), Stripe (payments)
- Security & Monitoring: Sentry (error tracking), APM (response times, API health)
- Claude's Architecture Integrated
- 1 Frontend (Next.js on Vercel)
- App Router model (modern approach)
- Public & Protected Routes
- Edge Caching for static & dynamic content
- Action Items for Cursor:
- Implement authentication guards on protected routes.
- Set up Next.js Edge Middleware for caching.

## 2 Caching Layer (Redis)

- User Data: Profile info, preferences, Al exercise results
- Content Data: Cached Al-generated posts, templates, training materials
- Analytics Data: Performance tracking, LinkedIn engagement stats
- Action Items for Cursor:

- Set up Redis integration for fast data retrieval.
- Implement cache invalidation rules (e.g., when a user updates their profile).

## 3 Queue System

Handles background processing for:

- Al-generated content (async requests to OpenAl)
- Scheduled posts (posting via LinkedIn API)
- Performance analytics (aggregating engagement data)
- **Action Items for Cursor:**
- Implement Task Scheduling & Worker Processes.
- Connect queue system to Al post generation & scheduled content.

## 4 Backend (Supabase)

- PostgreSQL DB
- Row Level Security (RLS) for user-specific data protection
- Edge Functions for real-time AI content updates
- Authentication system (OAuth, JWT, Role-based Access)
- Action Items for Cursor:
- Ensure user data is securely stored with RLS.
- Implement Supabase Edge Functions for AI processing triggers.

## 5 Al Service (Python Backend on Render)

- Runs OpenAl-powered content generation
- Uses retry mechanisms & fallback strategies
- Automates personalized LinkedIn post drafting
- Action Items for Cursor:

- Implement AI content API endpoints.
- Set up error handling & retries for OpenAl failures.