Project Overview System Purpose

Build a comprehensive job application automation system with integrated viral content creation for Remy (LoveLogicAl founder) targeting restaurant management, cannabis industry, high-end sales, and tech consulting positions across the Brentwood to Walnut Creek Bay Area corridor.

Key Features

- ✓ Multi-industry job automation
- ✓ Al-powered resume generation ✓ Viral content creation Social media automation
- ✓ Performance analytics
- **Q** Job Hunting Agents

Multi-Agent System Architecture

• RestaurantManagerBot CannabisLeadershipBot HighEndSalesBot TechConsultantBot

■ Content Creation Agents ViralStrategistAgent ContentGeneratorAgent • SocialMediaManagerAgent

AnalyticsTrackerAgent

Support Systems MasterOrchestrator ConfigurationManager DatabaseManager APIIntegrationHub

Backend Technologies # Core Framework

Technical Implementation Stack

APScheduler (job scheduling)

- PostgreSQL (primary data) Redis (caching/sessions)

Database

- Python 3.11+ - FastAPI (async web framework) - Pydantic (data validation) - SQLAlchemy (ORM) - Alembic (migrations) # Al & Automation - OpenAI API (GPT-4 for content) - LangChain (agent orchestration) LangGraph (workflow management) - Selenium (web automation) BeautifulSoup4 (web scraping) # Task Management - Celery (background tasks) - Redis (message broker)

Complete Replit Development Prompt

Frontend & Integration

```
# Frontend
- React 18 + TypeScript
- Tailwind CSS (styling)
Chart.js (analytics)
- Socket.io (real-time updates)
# Social Media APIs
  Tiklok for Developers API
- Instagram Basic Display API
- LinkedIn Marketing API
- Twitter API v2
- YouTube Data API v3
# Job Platforms
- Indeed API
- LinkedIn Jobs API
- Google Jobs API
- Custom scrapers for niche sites
# File Storage
- AWS S3 (resumes/content)

    Local storage (development)
```

```
PROMPT FOR REPLIT AI:
   Create a complete job application automation system with viral content creation called "JobBot Content Empire" with the
   following specifications:
     CORE FUNCTIONALITY:
     1. Multi-agent job hunting system targeting 4 industries: restaurant management, cannabis retail, high-end sales, and tech
     consulting
     2. Automated resume and cover letter generation using Al
     3. Web scraping and application submission automation
     4. Viral content creation for TikTok, Instagram, LinkedIn, YouTube
     5. Social media posting automation
     6. Real-time analytics and performance tracking
     TECHNICAL ARCHITECTURE:
      - Backend: Python FastAPI with async/await patterns
     - Database: PostgreSQL with SQLAlchemy ORM
     - Task Queue: Celery with Redis broker
     - Frontend: React with TypeScript and Tailwind CSS
     - Al Integration: OpenAl API, LangChain agents
     - Web Automation: Selenium WebDriver
     USER PROFILE CONFIGURATION:
     Name: Jeremy "Remy" Morgan-Jones Sr.
     Company: LoveLogicAl LLC (founder)
     Experience: 5+ years restaurant (all positions), 3 years cannabis (Abundant Delivery), 2 years high-end sales ($100K in 100 days
     Location: Brentwood to Walnut Creek corridor, Bay Area, CA
      Target: Management and senior positions with experience-based positioning
     AGENT SPECIFICATIONS:
     1. RestaurantManagementBot: Target chains like Cheesecake Factory, Olive Garden for management roles
     2. CannabisLeadershipBot: Focus on dispensary manager positions at Cookies, Harborside, The Apothecarium
     3. HighEndSalesBot: Target Tesla, BMW, Williams Sonoma leveraging $100K achievement
     4. TechConsultantBot: Remote AI/ML consulting highlighting LoveLogicAI founder status
     5. ViralContentAgent: Create TikTok/Instagram content documenting the automation process
Project File Structure
```

— config.py — database.py

— __init__.py

jobbot-content-empire/

├─ backend/

├─ арр/

```
# FastAPI application
          — main.py
                                  # Configuration settings
                                  # Database connection
           — models/
              — __init__.py
              — user.py
                                  # User/profile models
                                 # Job and application models
             ├─ job.py
              — content.py
                                 # Social media content models
                                  # Analytics and tracking models
              └─ analytics.py
            - agents/
              — __init__.py
              — base_agent.py
                                  # Base agent class
              ─ job_hunters/
                 restaurant_bot.py
                 — cannabis_bot.py
                  - sales_bot.py
                 └─ tech_bot.py
               – content_creators/
                 — viral_strategist.py
                 content_generator.py
                 -- social_media_manager.py
                 — analytics_tracker.py
              — orchestrator.py # Master orchestrator
            - services/
              — __init__.py
              job_scraper.py # Web scraping service
              — resume_generator.py # AI resume creation
              — email_service.py # Email notifications
              file_manager.py # File upload/storage
            — api∕
              ├── __init__.py
              —— auth.py
                                 # Authentication endpoints
              — jobs.py
                                 # Job-related endpoints
              — content.py
                                 # Content management endpoints
              — analytics.py
                                 # Analytics endpoints
              └─ automation.py
                                  # Automation control endpoints
            − utils/
              — __init__.py
              ├── logger.py
                                  # Logging configuration
              ├── helpers.py
                                  # Utility functions
              └─ validators.py
                                  # Data validation
          └─ tasks/
              — __init__.py
              ├─ job_hunting.py
                                 # Background job hunting tasks
              — content_creation.py # Content generation tasks
              requirements.txt
                                 # Python dependencies
       — alembic.ini
                                 # Database migration config
      └─ migrations/
                                 # Database migrations
     — frontend/
       ├── public/
          ├─ index.html
          └─ manifest.json
        — src∕
          — components/
              Dashboard.tsx
                                  # Main dashboard
              ├─ JobsPanel.tsx
                                 # Job applications view
              — ContentPanel.tsx # Content management
              — AnalyticsPanel.tsx # Analytics dashboard
              └── SettingsPanel.tsx # Configuration
            - services/
              ├─ api.ts
                                 # API client
              --- websocket.ts
                                 # Real-time updates
                                 # Authentication
              └─ auth.ts
            - hooks/
              ├─ useJobs.ts
                                 # Job data hooks
              — useContent.ts
                                # Content hooks
              └── useAnalytics.ts # Analytics hooks
            - utils/
              — constants.ts
                                 # App constants
             └─ helpers.ts
                                 # Utility functions
          ├─ App.tsx
          └─ index.tsx
       — package.json
      └─ tailwind.config.js
     — config/
      jobbot_config.yaml
                                 # Main configuration
       — target_companies.yaml
                                 # Company targets
      content_templates.yaml
                                # Content templates
    — docker-compose.yml
                                 # Development environment
   ├─ Dockerfile
                                 # Production container
   — .env.example
                                 # Environment variables template
   — .gitignore
   - README.md
                                # Python project configuration
   └─ pyproject.toml
Example 1 Implementation Roadmap
     Core Infrastructure Setup
```

Content Creation System Build viral content generation agents for TikTok, Instagram, LinkedIn, and YouTube.

Al Resume & Cover Letter Generation

User Profile & Configuration

Job Hunting Agents

Production Deployment

Indeed API

Google Jobs API

AngelList API

Large job aggregation platform

Google's job search integration

Startup and tech job opportunities

company_name: str position_title: str

application_url: str resume_version: str

response_data: JSON

career_page_url: str contact_info: JSON last_scraped: datetime

class Company(Base): id: UUID name: str industry: str location: str website: str

application_date: datetime

cover_letter_content: TEXT

industry: str # restaurant, cannabis, sales, tech

status: str # pending, applied, responded, interviewed, offered, rejected

Social Media Automation Integrate social media APIs for automated posting and engagement tracking. **Analytics & Monitoring**

Deploy to production with proper scaling, monitoring, and backup systems.

Implement comprehensive analytics for job applications, content performance, and ROI tracking.

Initialize FastAPI backend, PostgreSQL database, React frontend, and basic authentication system.

Build YAML-based configuration system for user profile, job preferences, and industry targeting.

Implement the four specialized job hunting bots with web scraping and application automation.

Integrate OpenAl API for dynamic resume and cover letter creation based on job requirements.

```
Required API Integrations
Job Platforms
                                                         Social Media Platforms
LinkedIn Jobs API
                                                          TikTok for Developers
 Professional networking and job search
                                                          Video content automation
```

Database Schema Design # Core Models class User(Base): id: UUID email: str name: str profile_data: JSON created_at: datetime updated_at: datetime class JobApplication(Base): id: UUID user_id: UUID

Instagram Basic Display API

Photo/video content posting

LinkedIn Marketing API

YouTube Data API v3

Professional content publishing

Video upload and management

```
class ContentPost(Base):
      id: UUID
      user_id: UUID
      platform: str # tiktok, instagram, linkedin, youtube
      content_type: str # video, image, text
      title: str
      caption: TEXT
      hashtags: str
      media_url: str
      scheduled_time: datetime
       posted_time: datetime
       engagement_metrics: JSON
  class Analytics(Base):
       id: UUID
      user_id: UUID
      metric_type: str # job_applications, content_engagement, interviews
      metric_value: float
      metadata: JSON
Configuration System
User Profile YAML
                                                                    Automation Settings
  personal_info:
                                                                      automation_settings:
   name: "Jeremy Morgan-Jones Sr."
                                                                       daily_limits:
   email: "remy@lovelogicai.com"
                                                                         tier_1: 5
                                                                         tier_2: 15
   phone: "+1-xxx-xxx-xxxx"
   linkedin: "linkedin.com/in/remy"
                                                                         tier_3: 35
  location_preferences:
                                                                       content_schedule:
   primary_location: "Brentwood to Walnut Creek, CA"
                                                                         tiktok:
   search_radius: 45
                                                                           posts_per_day: 3
   remote_preference: "hybrid_preferred"
                                                                           best_times: ["9:00", "15:00", "21:00"]
                                                                          linkedin:
                                                                           posts_per_day: 1
   tier_1_roles:
                                                                           best_times: ["10:00"]
     - "AI Engineer"
     - "ML Engineer"
                                                                           posts_per_day: 2
     salary_range: [100000, 200000]
                                                                           best_times: ["12:00", "18:00"]
   tier_2_roles:
     - "Dispensary Manager"
                                                                         linkedin:
     - "Restaurant Manager"
                                                                           easy_apply: true
     salary_range: [50000, 80000]
                                                                           connection_requests: true
  experience:
                                                                           auto_apply: true
   restaurant:
                                                                           daily_limit: 25
                                                                         company_direct:
     positions: ["Server", "Bartender", "Cook"]
                                                                           enabled: true
                                                                           follow_up_days: 7
     company: "Abundant Delivery"
```

```
years: 2
 achievement: "$100K in 100 days"
entrepreneurship:
 current: "LoveLogicAI LLC Founder"
```

```
Replit Deployment Guide
 1. Initialize Replit Project
   replit init jobbot-content-empire --template python
  cd jobbot-content-empire
 2. Install Dependencies
  pip install fastapi uvicorn sqlalchemy psycopg2-binary
  pip install celery redis python-multipart
  pip install openai langchain selenium beautifulsoup4
  pip install pydantic-settings python-jose passlib
 3. Environment Variables
  OPENAI_API_KEY=your_openai_key
  DATABASE_URL=postgresql://user:pass@localhost/jobbot
   REDIS_URL=redis://localhost:6379
  SECRET_KEY=your_secret_key
   LINKEDIN_CLIENT_ID=your_linkedin_id
   INSTAGRAM_ACCESS_TOKEN=your_instagram_token
```

cd frontend && npm start

Success Metrics & KPIs

Start Celery worker (separate terminal) celery -A app.tasks worker --loglevel=info

Start frontend (separate terminal)

uvicorn app.main:app --host 0.0.0.0 --port 8000 --reload

```
Job Application Metrics

✓ Applications per day: 50+

✓ Response rate: 25%+
✓ Interview rate: 15%+
```

4. Run Application

Start backend

Content Performance

✓ TikTok views: 10K+ per video

✓ LinkedIn engagement: 5%+

✓ Instagram reach: 5K+ per post

Business Impact

✓ LoveLogicAl leads: 10+ per week

✓ Media mentions: 5+ per month

✓ Follower growth: 1K+ per week

✓ Speaking opportunities: 2+ per month